



REPUBLIC OF CYPRUS  
SHIPPING DEPUTY MINISTRY

## SEA TRIALS – BIO FUELS



## Samskip Endeavour / IMO.9436290



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## **PREAMBLE**

Cyprus flagged vessel, SAMSKIP ENDEAVOUR / IMO.9436290 managed by company Nav-Tech BV performed sea trials by consuming bio-fuels.

Official notification in regards to the company's intention to proceed with sea trials by consuming bio-fuels received to this Administration on 15<sup>th</sup> January 2020. Affected coastal states as well as European Commission were informed accordingly prior to the commencement of the sea trials.

All relevant documents have been requested by the company and consequently European Commission has been notified in regards to the intended sea trials for a period of 18 months.

## **GENERAL PARTICULAR**

Name	Samskip Endeavour
IMO	9436290
Ship's Type	Container Ship
Call Sign	5BEY3
Gross Tonnage	7852
Net Tonnage	3363
Keel Laid	2008
Main Engine Power(Kw)	8400
Length (m)	130.60
Breadth (m)	21.80
Moulded Depth (m)	9.50
Ship's Classification Society	DNV



## **PROCEDURE - RESULTS**

The sea trials onboard MV Samskip Endeavour for a period of 18 months, initiated **11<sup>th</sup> September 2020 until 10<sup>th</sup> March 2022**, as per the relevant authorization letter issued by Deputy Ministry of Shipping.

During sea trials the vessel consumed the Bio-Fuel, GoodFuels MR 1-100. Meanwhile compliant fuel as per MARPOL/ANNEX VI / REG.14.1 – REG14.4 was maintained onboard as a back-up and readily available for consumption, if needed.

Ship's specific instructions related to the trials has been prepared by the company and crew members were fully familiar with its contents. Air emissions monitored and analysed continuously by tamperproof device to ensure that is fully comply with MARPOL ANNEX VI requirements (NO<sub>x</sub> – SO<sub>x</sub> emissions).

The process supervised by ship's Classification Society (DNV) and upon completion of the sea trials, a relevant report / statement demonstrating compliance with prevailing International / EU Regulations as well as the results of the sea trials, submitted to the Shipping Deputy Ministry.

Intermediate and final reports / results were submitted by the ship's Classification Society, entity who takes over the responsibility of the supervising and reviewing of the emissions results which were found satisfactory and within permissible limits as per the NO<sub>x</sub> code.

## **Annexes**

Annex 1 – Shipping Deputy Ministry Authorization letter

Annex 2 – Sea trials related documents

Annex 3 – Intermediate report (04<sup>th</sup> March 2021)

Annex 4 – Final report (08<sup>th</sup> March 2022)

**Annex 1 – Shipping Deputy Ministry Authorization letter**

04/09/2020

**To:** Nav – Tech BV  
**CC:** DNV-GL AS

DMS: 4.28.03.10.7  
RCS: 12019

INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS

Trials by using Bio-Fuels as per Regulation 3.2 / MARPOL ANNEX VI & Article 10 / Directive (EU) 2016/802

Name of Ship	IMO Number	CALL SIGN
SAMSKIP ENDEAVOUR	9436290	5BEY3

In accordance with the provisions of Regulation 3, paragraph 2 of MARPOL ANNEX VI, as amended and Article 10 / Directive (EU) 2016/802 the Shipping Deputy Ministry to the President hereby permits the performance of the sea trials by using Bio-Fuel (**GoodFuels MR 1-100**) on the main and auxiliary engines of the subject vessel under the following conditions:

1. During sea trials the vessel should consume the Bio-Fuel, **GoodFuels MR 1-100**;
2. Compliant fuel as per MARPOL / ANNEX VI / REG.14.1 – REG14.4 must be carried out onboard as a back-up and readily available for consumption, if needed;
3. Ship is provided with specific instructions related to the trials with Bio-Fuels and crew members are fully familiar with its contents;
4. Provisions of the Article 10 / Directive (EU) 2016/802 are strictly fulfilled;
5. Air emissions should be continuously monitored/analysed by tamperproof device and ensure that comply with MARPOL requirements (NOx – SOx emissions);
6. The process should be supervised by ship's Classification Society (**DNVGL**) and every six (6) months, counting from **11<sup>th</sup> of September 2020**, as well as upon completion of the sea trials, a relevant report demonstrating compliance with prevailing International / EU Regulations and the results of the sea trials, should be submitted to the Shipping Deputy Ministry.

This permission is valid for a period of **11<sup>th</sup> of September 2020** to **10<sup>th</sup> of March 2022**.

**Annex 2 – Sea trials related documents**



**GoodFuels**  
Better world

## GOODFUELS MR1-100

### TYPICAL PRODUCT INFORMATION SHEET

Grade	GoodFuels MR1-100
Renewable Fuel Fraction	100 vol-%
Feedstock	100% waste / residues

Property	Unit	Method	Specification	Typical value
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	DIN EN ISO 3104	15-75	30
Density at 15°C	kg/m <sup>3</sup>	DIN EN ISO 12185	< 970	927
Sulfur	Mass-%	DIN EN ISO 20884	< 0,025	0,015
Flash point	°C	DIN EN ISO 3679	> 150	190
Acid Number	mg KOH/g	DIN EN 14104	< 2,5	0,3
Water	Volume-%	DIN EN ISO 12937	< 0,50	0,03
Fatty Acid Methyl Ester (FAME)	Mass-%	DIN EN 14103	< 50	30
Net Calorific Value	MJ/kg	DIN 51900-2 mod.	> 35	39



## GOODFUELS BIOFUEL TEST

### Final report

This report replaces our preliminary report of 12-Jul-2019.

### Operational

No comments given

Sample Number	ROT1937499
Supplier	GOOD FUELS
Sent From	Nederland
Date Sent	04-Jul-2019
Arrived at Lab	05-Jul-2019
Product Type	MR1-100
Sampling Point	Not Stated
Sampling Date	Not Stated
Sampling Method	Not Stated
Order Number	082005190024
Seal Data	NO SEAL

## Test Results

	Unit	Test Results	Test Method
Density @ 15°C	kg/m <sup>3</sup>	928.7	ISO 12185
Viscosity @ 50°C	mm <sup>2</sup> /s	19.81	ISO 3104
Water	%V/V	0.05	ASTM D6304-C
Micro Carbon Residue	%m/m	1.03	ISO 10370
Sulfur	%m/m	< 0.030	ISO 8754
Total Sediment Potential	%m/m	< 0.01	ISO 10307-2
Ash	%m/m	< 0.010	LP 1001
Vanadium	mg/kg	< 1	IP 501
Sodium	mg/kg	< 1	IP 501
Aluminium	mg/kg	< 1	IP 501
Silicon	mg/kg	2	IP 501
Iron	mg/kg	1	IP 501
Nickel	mg/kg	< 1	IP 501
Calcium	mg/kg	< 1	IP 501
Magnesium	mg/kg	< 1	LP 1101
Zinc	mg/kg	< 1	IP 501
Phosphorus	mg/kg	< 1	IP 501
Potassium	mg/kg	20	LP 1101
Pour Point	degC	18	LP 1306
Flash Point	degC	> 70	ISO 2719-B
Net Specific Energy <sup>1</sup>	MJ/kg	42.02	ISO 8217
CCAI (Ignition Quality) <sup>1</sup>	-	831	ISO 8217
Aluminium + Silicon	mg/kg	< 3	
Acid Number	mg KOH/g	0.29	ASTM D664
Copper Corrosion @ 50°C	-	1a	ASTM D130
Lubricity (HFRR) - Wear scar diam.	µm	194	ISO 12156
GC/MS Screen Headspace	-	Pass	LP 3404-Headspace Screen
Bacteria	-	Negative	Easicult Combi
Yeast	-	Negative	Easicult Combi
Fungi	-	Negative	Easicult Combi
Steel Corrosion 20°C	-	1	LP 2902
Steel Corrosion 60°C	-	1	LP 2902
Steel Corrosion 120°C	-	1	LP 2902

<sup>1</sup> Calculated value

## Operational Advice

### Copper Corrosion

Copper Corrosion result of 1a, on a scale of 1a to 4c, indicates this fuel is not corrosive to copper.

Test result scale: 1a/b, 2a/b/c/d/e, 3a/b, 4a/b/c

### Steel Corrosion

Steel Corrosion results of 1, on a scale of 1 to 5, indicates this fuel is not corrosive to steel ( Steel C-4140).

Test result scale: 1, 2, 3, 4, 5



### Approximate fuel temperatures

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Injection	70 °C for 10 mm <sup>2</sup> /s, 60 °C for 15 mm <sup>2</sup> /s, 50 °C for 20 mm <sup>2</sup> /s, 45 °C for 25 mm <sup>2</sup> /s
Transfer	30 °C

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### Note

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The Fuel Combustion Analyser (FCA) results will follow separately

Best Regards,  
On behalf of Veritas Petroleum Services BV  
B. van Ee  
Senior Technical Adviser

For assistance or further information on this report please contact your nearest VPS office or contact us directly at Tel: +31 (0) 180 221100, Email : Tech.Rot@v-p-s.com

Reference to part(s) of this report which may lead to misinterpretation is prohibited.

**Annex 3 – Intermediate report (04<sup>th</sup> March 2021)**



Nav-Tech B.V.  
Att: [Michel.Kafoe@nav-tech.nl](mailto:Michel.Kafoe@nav-tech.nl)  
Waalhaven O.z. 81  
3087 BM Rotterdam  
Netherlands

DNV GL SE Ship Classification  
Environmental Certification  
Brooktorkai 18  
20457 Hamburg  
Germany

<b>Date:</b>	<b>Our reference:</b>	<b>Your reference:</b>	<b>Job ID:</b>
2021-03-04	M-SA-ME/CKUR/ P251.2-J-62675	END-2020-S0032-O(01) - Samskip Endeavour	EIAPP20210120-5 A0933045

#### Sea Trials by using Bio-Fuel (GoodFuels MR 1-100)

##### Particulars of the ship

<b>Name of ship:</b>	<b>Samskip Endeavour</b>
<b>Flag:</b>	<b>Cyprus</b>
<b>IMO Number:</b>	<b>9436290</b>
<b>Call Sign:</b>	<b>5BEY3</b>

##### Main Engine

<b>Engine maker:</b>	<b>Caterpillar Motoren GmbH &amp; Co. KG</b>
<b>Number and type of propulsion engines:</b>	<b>1 Engine, MAK 9M43C</b>
<b>Engine Serial No.:</b>	<b>68297</b>
<b>Rated Power @ Rated Speed:</b>	<b>8400 kW @ 500 rpm</b>

Dear Mr. Kafoe,

We acknowledge with thanks the receipt of your report "Bio Fuel Project", Report number: END-2021-001, Report date: 13-02-2021 which we "Used for Information" that the Bio-Fuel, GoodFuels MR 1-100 does not cause negative impact on the NOx emission of the main engine.

The NOx emissions have been quantified on the basis of the simplified measurement method under 6.3 of the NOx Technical Code 2008.

The permission for sea trials by using Bio-Fuel (GoodFuels MR 1-100) for the subject vessel is valid until 10th March 2022. Please be advised that after 10th March 2022 the International Air Pollution Prevention (IAPP) certificate should reflect the usage of GoodFuels MR 1-100 under 2.6 "Equivalents".

Sincerely  
for DNV GL SE

Fabian Kock  
Head of Section Environmental Certification

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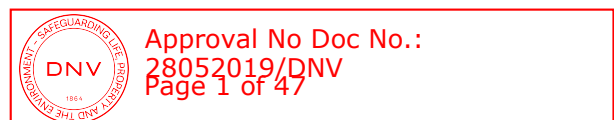
# BIO FUEL PROJECT

Report number: END-2021-001  
Report date: 13-02-2021



Particulars	
Ship's name:	Samskip Endeavour
IMO Number:	9436290
Flag:	CYPRUS
Port of Registry:	LIMMASOL
Call Sign:	5BEY3
Class Society:	DNV-GL
Build date:	2011
Length Overall:	140.62 m
Length PP:	130.00 m
Beam mid:	21.80 m
Depth:	9.50 m
Gross Tonnage:	7852
Net Tonnage:	3363
Summer Displacement:	14018.9 t
Summer Deadweight:	9300 t
Summer Draught:	7.335 m
Summer Freeboard:	2.15 m
Main Engine:	MAK 9M43C
Engine Rating:	8400 kW
RPM:	500
No <sub>x</sub> classification:	Tier I

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Tab 4	Emission measurements MR1-100
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Tab 6	TESTO data @ 75% MR1-100
Tab 7	TESTO data @ 85% MR1-100
Tab 8	Calibration gas certificates
Tab 9	BDN's deliveries MR1-100



**Results overview**

**Report number: END-2021-001**  
**Report date: 13-02-2021**

General data		Engine NOx rating		Main engine overhauled during dry dock period from 27/12/2020 till 13/01/2021 Works done: 15000 hours top end overhaul, consisting of: Cyl heads, FO pumps, FO injectors, Turbo charger & Governor Note: all parts renewed are Tier 1 classed parts, main engine tested in presence of class surveyor
Rated speed			500	
Tier 1 allowed	g/kWh	12,98		
Tier 1 + 10% allowed	g/kWh	14,28		

Fuel element analysis		ULSFO	MR1-100	EN590
Fuel type				
Carbon	%	87,0	76,3	87,0
Hydrogen	%	12,5	11,8	13,0
Sulphur	%	0,1	0,0	0,1
Nitrogen	%	0,0	0,1	0,0
Oxygen	%	0,1	11,6	0,0

Fuel type		EN590 Parent Engine			
Date					
Load	%	25	50	75	100
Weighting Factor E2		0,15	0,15	0,5	0,2
Fuel SFOC	kg/ton fuel	51,41	66,60	71,03	64,87
Specific NOx emissions	g/kWh	10,60	12,47	12,94	12,00

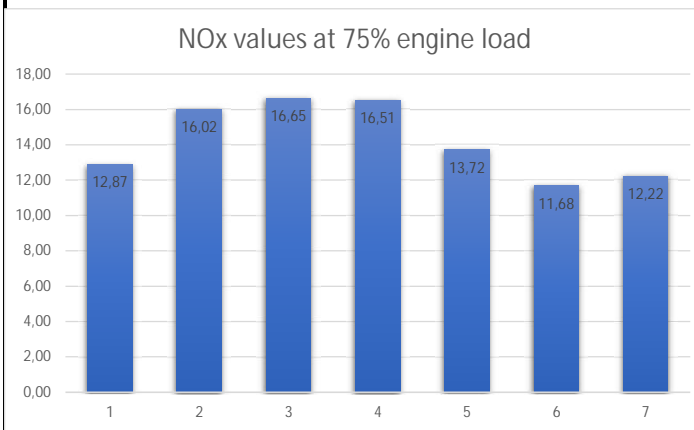
  

Testing equipment used: TESTO 350  
 Equipment calibrated by manufacturer.

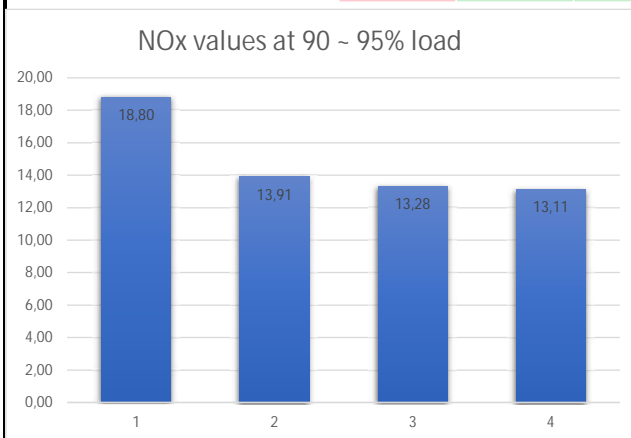
Test Run	Specific NOx Emissions (g/kWh)
1	10,60
2	12,47
3	12,94
4	12,00

Bio Fuel deliveries / Co2 Reductions					
Date	Fuel	Quantity mt	D. @ 15°C (kg/m³)	Total Sulphur	Tons of Co2 reduction
12-12-2020	MS1-100	151,865	921,5	0,0128	472,91
15-01-2021	MS1-101	302,188	913,4	0,0107	986,81
29-01-2021	MS1-102	292,745	894,9	0,0062	911,61
<b>Total tons of Co2 reduction compared to fossil fuels</b>					<b>#REF!</b>

Test data		Fossil	Fossil	Fossil	Bio	Bio	Bio	Bio
Fuel type		7-12-2020	11-12-2020	12-12-2020	13-12-2020	16-1-2021	6-2-2021	13-2-2021
Date		1	2	3	4	5	6	7
Position in Graph		1130,00	1335,00	1340,00	1379,00	1258,00	1278,00	1224,00
Fuel consumption	kg/h	75	75	75	75	75	75	75
Load	%	12,87	16,02	16,65	16,51	13,72	11,68	12,22
Specific NOx emissions	g/kWh	-0,89%	23,35%	28,26%	27,12%	5,63%	-10,03%	-5,88%
NOx percentage compared to tier 1								



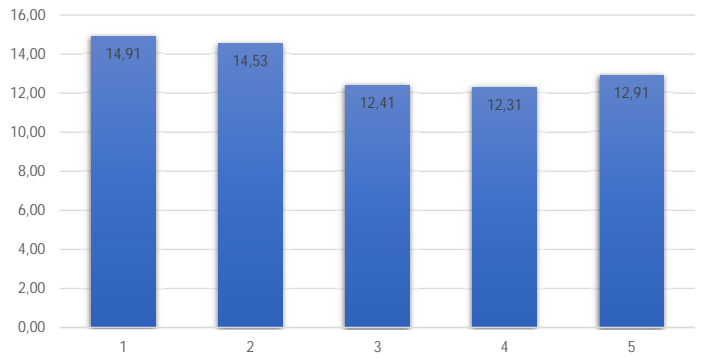
Test data		Bio	Bio	Bio	Bio
Fuel type		16-1-2021	27-1-2021	6-2-2021	10-2-2021
Date		1	2	3	4
Position in Graph		1988,80	1755,00	1809,00	1595,00
Fuel consumption	kg/h	92	90	95	90
Load	%	18,80	13,91	13,28	13,11
Specific NOx emissions	g/kWh	44,82%	7,14%	2,31%	0,95%
NOx percentage compared to tier 1	%				



**Test data**

Fuel type		Fossiel	Bio	Bio	Bio	Bio
Date		9-12-2020	20-1-2021	6-2-2021	11-2-2021	13-2-2021
Position in Graph		1	2	3	3	4
Fuel consumption	kg/h	1400,00	1470,00	1521,00	1477,40	1440,00
Load	%	85	85	85	85	85
Specific NOx emissions	g/kWh	14,91	14,53	12,41	12,31	12,91
NOx percentage compared to tier 1	%	14,81%	11,90%	-4,41%	-5,22%	-0,58%

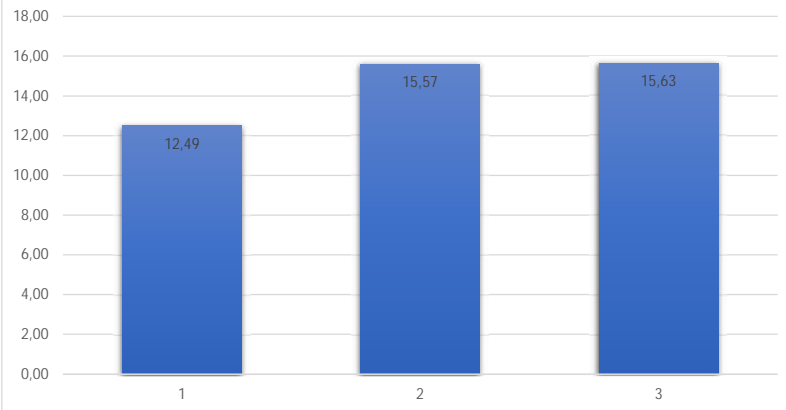
NOx values at 85% engine load



**Test data**

Fuel type		Fossiel	Bio	Fossiel
Date		11-12-2020	14-12-2020	8-12-2020
Position in Graph		1	2	3
Fuel consumption	kg/h	840,00	1273,00	1380,00
Load	%	50	70	80
Specific NOx emissions	g/kWh	12,49	15,57	15,63
NOx percentage compared to tier 1	%	-3,79%	19,92%	20,36%

NOx values at various engine loads



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**Paretn Engine**

**Report number: END-2021-001**  
**Report date: 13-02-2021**

**Main Engine**  
 Fuel grade

**Symbol**

EN 590

Constant
Input data
Internal actions
Output data

Load Sequence Ref		1	2	3	5
Nominal load		25%	50%	75%	100%
Date	dd/mm/yyyy				
Start Time	hh/mm				
End Time	hh/mm				
Load	%	25	50	75	100
Rated power	kW	9034	9034	9034	9034
Power	kW	2258,5	4517	6775,5	9034

**Fuel Composition**

Carbon	W <sub>BET</sub>	%	87,0	87,0	87,0	87,0
Hydrogen	W <sub>ALF</sub>	%	13,0	13,0	13,0	13,0
Sulphur	W <sub>GAM</sub>	%	0,1	0,1	0,1	0,1
Nitrogen	W <sub>DEL</sub>	%	0,0	0,0	0,0	0,0
Oxygen	W <sub>EPS</sub>	%	0,0	0,0	0,0	0,0
Carbon factor	f <sub>c</sub>		2,52	2,57	2,58	2,93
Fuel specific factor (dry)	f <sub>fd</sub>		-0,72	-0,72	-0,72	-0,72
Fuel specific factor (wet)	f <sub>fw</sub>		0,72	0,72	0,72	0,72

**Ambient**

CO2 ambient	C <sub>CO2ad</sub>	%	0,03	0,03	0,03	0,03
Barometric pressure	p <sub>b</sub>	kPa	98,8	98,8	98,7	98,8
Temperature at RH measurement point	t <sub>a</sub>	°C	24,4	22,5	21,6	23,2
Temperature at RH measurement point	T <sub>a</sub>	°K	297,55	295,65	294,75	296,35
Relative humidity	R <sub>a</sub>	%	41,5	46,3	48,3	42,6
Saturation vapour pressure of the charge air	p <sub>a</sub>	kPa	3,06	2,72	2,58	2,84
Absolut humidity	H <sub>a</sub>	g/kg	8,087	8,045	7,951	7,719

**Measured Data**


Fuel Consumption	q <sub>mf</sub>	kg/h	465,8	846,1	1234,4	1670,6
CO <sub>2</sub> (dry)	C <sub>CO2d</sub>	%	4,6	4,73	4,76	5,39
CO (dry)	C <sub>COd</sub>	ppm	34,0	17	14	34
NO (dry)	C <sub>NOd</sub>	ppm	739,0	970	1037	1081
NO <sub>2</sub> (dry)	C <sub>NO2d</sub>	ppm	0,0	0	0	0
O <sub>2</sub> (dry)	C <sub>O2d</sub>	%	14,5	13,34	14,3	13,42
SO <sub>2</sub> (dry)	C <sub>SO2d</sub>	ppm				
HC (dry)	C <sub>HCw</sub>		311	222	157	141

**Calculated Values**

Exhaust flow rate	q <sub>mew</sub>	kg/h	22348	39796	57793	69621
Intake air flow rate (wet)	q <sub>maw</sub>	kg/h	21882	38950	56558	67950
Intake air flow rate (dry)	q <sub>mad</sub>	kg/h	21601	38452	55844	67117
Fuel sfoc		g/kWh	206,2	187,3	182,2	184,9
Wet/dry conversion factor intake air	k <sub>wa</sub>		0,99	0,99	0,99	0,99
Wet/Dry conversion factor exhaust air (NOx)	k <sub>wr1</sub>		0,96	0,96	0,96	0,95
Wet/Dry conversion factor exhaust air (other gasses)	k <sub>w2</sub>		0,01	0,01	0,01	0,01
NOx correction factor	k <sub>hd</sub>		0,96	0,96	0,97	0,96

**Calculated Exhaust Values**

NOx density coefficient	u <sub>gas</sub>		0,00159	0,001586	0,001586	0,001586
NOx concentration (dry)	C <sub>gasd</sub>	ppm (dry)	739,0	970	1037	1081
NOx concentration (wet)	C <sub>gasw</sub>	ppm (wet)	706,5	927	991	1028
NOx emission mass flow rate	q <sub>mgas</sub>	g/h	23945,6	56347	87675	108375
Fuel SFOC		kg/ tonne fuel	51,4	66,6	71,9	64,9
NOx specific emission		g/kWh	10,6	12,47	12,94	12,00


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**Emission measurements MR1-100**

**Report number: END-2021-001**  
**Report date: 13-02-2021**

**Main Engine**  
 Fuel grade

**Symbol**

MR1-100

Constant
Input data
Internal actions
Output data

Load Sequence Ref		1	2	3	4	5
Nominal load						
Date	dd/mm/yyyy	13-12-2020	14-12-2020	16-1-2021	16-1-2021	20-1-2021
Start Time	hh/mm	21:30	05:07	20:24	09:37	21:31
End Time	hh/mm	22:35	06:14	21:05	10:24	22:14
Load	%	75	70	75	92	85
Rated power	kW	8400	8400	8400	8400	8400
Power	kW	6300	5880	6300	7728	7140

**Fuel Composition**

Carbon	W <sub>BET</sub>	%	76,30	76,30	76,30	76,30	76,30
Hydrogen	W <sub>ALF</sub>	%	11,80	11,80	11,80	11,80	11,80
Sulphur	W <sub>GAM</sub>	%	0,01	0,01	0,01	0,01	0,01
Nitrogen	W <sub>DEL</sub>	%	0,05	0,05	0,05	0,05	0,05
Oxygen	W <sub>EPS</sub>	%	11,60	11,60	11,60	11,60	11,60
Carbon factor	f <sub>c</sub>		3,11	3,15	3,04	2,99	3,00
Fuel specific factor (dry)	f <sub>fd</sub>		-0,57	-0,57	-0,57	-0,57	-0,57
Fuel specific factor (wet)	f <sub>fw</sub>		0,74	0,74	0,74	0,74	0,74

**Ambient**

CO2 ambient	C <sub>CO2ad</sub>	%	0,03	0,03	0,03	0,03	0,03
Barometric pressure	p <sub>b</sub>	kPa	101,10	101,10	101,10	101,10	101,10
Temperature at RH measurement point	t <sub>a</sub>	°C	25,00	25,00	29,50	23,10	25,00
Temperature at RH measurement point	T <sub>a</sub>	°K	298,15	298,15	302,65	296,25	298,15
Relative humidity	R <sub>a</sub>	%	50,00	50,00	26,80	22,40	50,00
Saturation vapour pressure of the charge air	p <sub>a</sub>	kPa	3,17	3,17	4,12	2,83	3,17
Absolut humidity	H <sub>a</sub>	g/kg	9,90	9,90	6,87	3,92	9,90

**Measured Data**

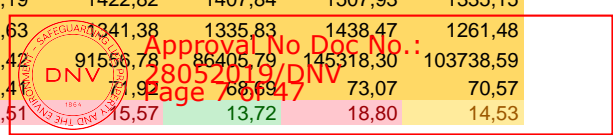
Fuel Consumption	q <sub>mf</sub>	kg/h	1379,00	1273,00	1258,00	1988,80	1470,00
CO <sub>2</sub> (dry)	C <sub>CO2d</sub>	%	5,74	5,81	5,61	5,53	5,55
CO (dry)	C <sub>COd</sub>	ppm	16,44	18,92	12,85	13,19	17,29
NO (dry)	C <sub>NOd</sub>	ppm	1416,54	1374,69	1354,17	1437,85	1287,56
NO <sub>2</sub> (dry)	C <sub>NO2d</sub>	ppm	57,65	48,13	53,67	70,08	47,59
O <sub>2</sub> (dry)	C <sub>O2d</sub>	%	13,33	13,20	13,53	13,88	13,45
SO <sub>2</sub> (dry)	C <sub>SO2d</sub>	ppm	14,80	13,83	15,95	16,45	18,45
HC (dry)	C <sub>HCw</sub>		0,00	0,00	0,00	0,00	0,00

**Calculated Values**

Exhaust flow rate	q <sub>mew</sub>	kg/h	47876,44	43701,72	44485,35	71068,00	52652,82
Intake air flow rate (wet)	q <sub>maw</sub>	kg/h	46497,44	42428,72	43227,35	69079,20	51182,82
Intake air flow rate (dry)	q <sub>mad</sub>	kg/h	45769,01	41764,03	42754,84	68646,64	50380,99
Fuel sfoc		g/kWh	218,89	216,50	199,68	257,35	205,88
Wet/dry conversion factor intake air	k <sub>wa</sub>		0,98	0,98	0,99	0,99	0,98
Wet/Dry conversion factor exhaust air (NO <sub>x</sub> )	k <sub>wr1</sub>		0,94	0,94	0,95	0,95	0,94
Wet/Dry conversion factor exhaust air (other gasses)	k <sub>w2</sub>		0,02	0,02	0,01	0,01	0,02
NO <sub>x</sub> correction factor	k <sub>hd</sub>		0,98	0,98	0,92	0,90	0,98

**Calculated Exhaust Values**

NO <sub>x</sub> density coefficient	u <sub>gas</sub>		0,00	0,00	0,00	0,00	0,00
NO <sub>x</sub> concentration (dry)	C <sub>gasd</sub>	ppm (dry)	1474,19	1422,82	1407,84	1507,93	1335,15
NO <sub>x</sub> concentration (wet)	C <sub>gasw</sub>	ppm (wet)	1390,63	1341,38	1335,83	1438,47	1261,48
NO <sub>x</sub> emission mass flow rate	q <sub>mgas</sub>	g/h	103985,42	91556,78	86405,79	145318,30	103738,59
Fuel SFOC		kg/ tonne fuel	75,41	71,92	68,69	73,07	70,57
NO <sub>x</sub> specific emission		g/kWh	16,51	15,57	13,72	18,80	14,53



Emission measurements MR1-100

Report number: END-2021-001

Report date: 13-02-2021

	6	7	8	9	10	11	12	13
27-1-2021	6-2-2021	6-2-2021	6-2-2021	10-2-2021	11-2-2021	13-2-2021	13-2-2021	
09:30	16:08	14:40	13:18	09:09	09:03	09:53	09:03	
10:38	17:12	15:44	14:23	10:13	10:07	10 <sup>h</sup> 54	10:07	
90	75	85	95	90	85	75	85	
8400	8400	8400	8400	8400	8400	8400	8400	
7560	6300	7140	7980	7560	7140	6300	7140	

76,30	76,30	76,30	76,30	76,30	76,30	76,30	76,30
11,80	11,80	11,80	11,80	11,80	11,80	11,80	11,80
0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
11,60	11,60	11,60	11,60	11,60	11,60	11,60	11,60
3,11	3,11	3,11	3,11	3,15	3,04	2,99	3,00
-0,57	-0,57	-0,57	-0,57	-0,57	-0,57	-0,57	-0,57
0,74	0,74	0,74	0,74	0,74	0,74	0,74	0,74

0,03	0,03	0,03	0,03	0,03	0,03	0,03	0,03
992,00	992,00	992,00	992,00	992,00	992,00	992,00	992,00
24,00	23,00	22,10	23,00	18,20	15,70	19,60	16,70
297,15	296,15	295,25	296,15	291,35	288,85	292,75	289,85
41,20	35,60	39,10	39,50	25,30	23,20	19,60	20,30
2,98	2,81	2,66	2,81	2,09	1,78	2,28	1,90
0,77	0,63	0,65	0,70	0,33	0,26	0,28	0,24

1755,00	1278,00	1521,00	1809,00	1595,00	1477,40	1224,00	1440,00
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5,61	5,61	5,60	5,65	5,46	5,32	5,39	5,43
15,35	14,73	13,61	14,24	13,74	9,36	11,10	13,67
1297,52	1252,86	1257,06	1265,01	1332,07	1220,74	1299,63	1306,04
52,90	42,67	48,67	51,92	62,48	58,15	54,21	61,76
13,43	13,51	13,53	13,36	17,01	13,79	13,50	13,67
15,25	14,73	13,72	13,95	12,29	18,82	13,55	15,23
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

60395,75	43974,35	52336,94	62249,54	54252,33	51910,32	43584,47	51098,90
58640,75	42696,35	50815,94	60440,54	52657,33	50432,92	42360,47	49658,90
58568,08	42653,31	50762,67	60372,93	52629,27	50411,89	42341,39	49639,59
232,14	202,86	213,03	226,69	210,98	206,92	194,29	201,68

1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
0,96	0,96	0,96	0,96	0,96	0,96	0,96	0,96
0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0,85	0,85	0,85	0,85	0,86	0,87	0,86	0,87

0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
1350,42	1295,53	1305,73	1316,93	1394,55	1278,89	1353,84	1367,80
1292,39	1240,14	1249,86	1260,49	1334,77	1226,27	1298,97	1312,22
105173,54	73598,93	88621,16	106008,08	99096,75	87864,73	76995,15	92166,78
59,93	57,59	58,27	58,60	62,13	59,47	62,90	64,00
13,91	11,68	12,41	13,28	13,11	12,31	12,22	12,91

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## Emission measurements ULSFO

Report number: END-2021-001  
Report date: 13-02-2021

Main Engine  
Fuel grade

Symbol

ULSFO

Constant  
Input data  
Internal actions  
Output data

Load Sequence Ref			1	2	3	4	5	6
Nominal load								
Date	dd/mm/yyyy		7-12-2020	8-12-2020	9-12-2020	11-12-2020	11-12-2020	12-12-2020
Start Time	hh/mm		11:10	09:20	20:30	04:20	13:00	08:45
End Time	hh/mm					05:48	14:42	10:02
Load	%		75	80	85	75	50	75
Rated power	kW		8400	8400	8400	8400	8400	8400
Power	kW		6300	6720	7140	6300	4200	6300
<b>Fuel Composition</b>								
Carbon	W <sub>BET</sub>	%	87,0	87,0	87,0	87,0	87,0	87,0
Hydrogen	W <sub>ALF</sub>	%	12,5	12,5	12,5	12,5	12,5	12,5
Sulphur	W <sub>GAM</sub>	%	0,1	0,1	0,1	0,1	0,1	0,1
Nitrogen	W <sub>DEL</sub>	%	0,0	0,0	0,0	0,0	0,0	0,0
Oxygen	W <sub>EPS</sub>	%	0,1	0,1	0,1	0,1	0,1	0,1
Carbon factor	f <sub>c</sub>		2,96	3,03	3,08	3,10	3,22	3,11
Fuel specific factor (dry)	f <sub>fd</sub>		-0,69	-0,69	-0,69	-0,69	-0,69	-0,69
Fuel specific factor (wet)	f <sub>fw</sub>		0,70	0,70	0,70	0,70	0,70	0,70
<b>Ambient</b>								
CO2 ambient	C <sub>CO2ad</sub>	%	0,03	0,03	0,03	0,03	0,03	0,03
Barometric pressure	p <sub>b</sub>	kPa	101,1	101,1	101,1	101,1	101,1	101,1
Temperature at RH measurement point	t <sub>a</sub>	°C	25	25	25	24,87	25	25
Temperature at RH measurement point	T <sub>a</sub>	°K	298,15	298,15	298,15	298,02	298,15	298,15
Relative humidity	R <sub>a</sub>	%	50	50	50	49,74	50	50
Saturation vapour pressure of the charge air	p <sub>a</sub>	kPa	3,17	3,17	3,17	3,14	3,17	3,17
Absolut humidity	H <sub>a</sub>	g/kg	9,898	9,898	9,898	9,768	9,898	9,898
<b>Measured Data</b>								
Fuel Consumption	q <sub>mf</sub>	kg/h	1130	1380	1400	1335	840	1340
CO <sub>2</sub> (dry)	C <sub>CO2d</sub>	%	5,5	5,59	5,69	5,72	5,95	5,75
CO (dry)	C <sub>COd</sub>	ppm	21,6	17,52	17,98	18,77	56,34	16,92
NO (dry)	C <sub>NOd</sub>	ppm	1142,9	1228,29	1245,55	1249,76	1088,29	1294,44
NO <sub>2</sub> (dry)	C <sub>NO2d</sub>	ppm	31,9	44,37	48,12	45,12	22,46	51,45
O <sub>2</sub> (dry)	C <sub>O2d</sub>	%	13,4	13,39	13,3	13,22	13,01	13,3
SO <sub>2</sub> (dry)	C <sub>SO2d</sub>	ppm	26,2	23,77	28,85	25,43	31,77	21,1
HC (dry)	C <sub>HCw</sub>		0	0	0	0	0	0
<b>Calculated Values</b>								
Exhaust flow rate	q <sub>mew</sub>	kg/h	46585	55755	55636	52787	32006	52736
Intake air flow rate (wet)	q <sub>maw</sub>	kg/h	45455	54375	54236	51452	31166	51396
Intake air flow rate (dry)	q <sub>mad</sub>	kg/h	44743	53523	53387	50656	30678	50591
Fuel sfoc		g/kWh	179,4	205,4	196,1	211,9	200,0	212,7
Wet/dry conversion factor intake air	k <sub>wa</sub>		0,98	0,98	0,98	0,98	0,98	0,98
Wet/Dry conversion factor exhaust air (NOx)	k <sub>wr1</sub>		0,95	0,95	0,95	0,95	0,94	0,95
Wet/Dry conversion factor exhaust air (other gasses)	k <sub>w2</sub>		0,02	0,02	0,02	0,02	0,02	0,02
NOx correction factor	k <sub>hd</sub>		0,98	0,98	0,98	0,98	0,98	0,98
<b>Calculated Exhaust Values</b>								
NOx density coefficient	u <sub>gas</sub>		0,001586	0,001586	0,001586	0,001586	0,001586	0,001586
NOx concentration (dry)	C <sub>gasd</sub>	ppm (dry)	1174,8	1272,66	1293,67	1294,88	1110,75	1345,89
NOx concentration (wet)	C <sub>gasw</sub>	ppm (wet)	1114,3	1206	1225	1226	1050	1274
NOx emission mass flow rate	q <sub>mgas</sub>	g/h	81076,5	105018	106441	100905	52466	104915
Fuel SFOC		kg/ tonne fuel	71,7	76,1	76,0	75,6	62,5	78,3
NOx specific emission		g/kWh	12,9	15,86	15,86	15,86	12,49	16,65

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TESTO data @ 75% MR1-100

Report number: END-2021-001


Report date: 13-02-2021

For additional data see below (FO flow meter readings & Sensor diagnosis)


Date / time	% CO2IR	% O2	ppm NOx	ppm CO	ppm SO2	mbar Pabs	°C Tmp/a	% Amb H	°C FT	ppm NO	ppm NO2	Dilution factor	Fuel
13-02-2021 10:01:59	5,56	13,68	1276	9	139	992	25,0	50,0	339,5	1271	50,5	x5	MR1-100
13-02-2021 10:02:00	5,56	13,50	1298	10	136	992	25,0	50,0	334,2	1291	52,7	x5	MR1-100
13-02-2021 10:02:01	5,56	13,46	1313	11	129	992	25,0	50,0	334,2	1304	54,4	x5	MR1-100
13-02-2021 10:02:02	5,55	13,48	1314	12	125	992	25,0	50,0	332,7	1304	55,6	x5	MR1-100
13-02-2021 10:02:03	5,55	13,56	1308	12	112	992	25,0	50,0	333,0	1298	56,4	x5	MR1-100
13-02-2021 10:02:04	5,45	13,66	1301	13	106	992	25,0	50,0	333,0	1290	57,1	x5	MR1-100
13-02-2021 10:02:05	5,45	13,74	1296	13	106	992	25,0	50,0	336,8	1285	57,6	x5	MR1-100
13-02-2021 10:02:06	5,45	13,79	1293	13	100	992	25,0	50,0	336,8	1281	57,9	x5	MR1-100
13-02-2021 10:02:07	5,45	13,79	1290	12	96	992	25,0	50,0	332,2	1278	58,3	x5	MR1-100
13-02-2021 10:02:08	5,46	13,72	1290	12	88	992	25,0	50,0	331,2	1277	58,6	x5	MR1-100
13-02-2021 10:02:09	5,46	13,69	1293	13	86	992	25,0	50,0	331,2	1280	59,1	x5	MR1-100
13-02-2021 10:02:10	5,46	13,75	1299	12	86	992	25,0	50,0	330,3	1286	59,1	x5	MR1-100
13-02-2021 10:02:11	5,43	13,82	1298	13	84	992	25,0	50,0	327,2	1285	59,2	x5	MR1-100
13-02-2021 10:02:12	5,43	13,86	1290	12	80	992	25,0	50,0	327,2	1277	59,1	x5	MR1-100
13-02-2021 10:02:13	5,43	13,86	1280	12	78	992	25,0	50,0	329,5	1267	59,0	x5	MR1-100
13-02-2021 10:02:14	5,43	13,90	1273	12	76	992	25,0	50,0	329,5	1260	58,4	x5	MR1-100
13-02-2021 10:02:15	5,43	13,98	1267	12	74	992	25,0	50,0	332,1	1255	58,1	x5	MR1-100
13-02-2021 10:02:16	5,14	14,06	1254	11	72	992	25,0	50,0	332,1	1242	57,9	x5	MR1-100
13-02-2021 10:02:17	5,14	14,08	1254	11	69	992	25,0	50,0	333,1	1242	57,9	x5	MR1-100
13-02-2021 10:02:18	5,14	14,04	1256	11	69	992	25,0	50,0	333,1	1244	57,7	x5	MR1-100
13-02-2021 10:02:19	5,14	14,00	1261	11	67	992	25,0	50,0	338,2	1249	57,6	x5	MR1-100
13-02-2021 10:02:20	5,14	13,98	1262	10	66	992	25,0	50,0	338,2	1250	57,3	x5	MR1-100
13-02-2021 10:02:21	5,14	13,92	1265	11	64	992	25,0	50,0	340,3	1253	57,2	x5	MR1-100
13-02-2021 10:02:22	5,14	13,87	1280	10	64	992	25,0	50,0	345,3	1269	57,3	x5	MR1-100
13-02-2021 10:02:23	5,41	13,83	1291	10	64	992	25,0	50,0	345,3	1280	57,2	x5	MR1-100
13-02-2021 10:02:24	5,41	13,75	1292	11	64	992	25,0	50,0	348,8	1281	57,1	x5	MR1-100
13-02-2021 10:02:25	5,41	13,68	1295	11	62	992	25,0	50,0	348,8	1284	57,1	x5	MR1-100
13-02-2021 10:02:26	5,41	13,59	1306	11	61	992	25,0	50,0	346,9	1295	57,1	x5	MR1-100
13-02-2021 10:02:27	5,41	13,53	1321	12	61	992	25,0	50,0	343,3	1310	57,3	x5	MR1-100
13-02-2021 10:02:28	5,41	13,46	1332	12	61	992	25,0	50,0	343,3	1321	57,4	x5	MR1-100
13-02-2021 10:02:29	5,72	13,44	1339	12	61	992	25,0	50,0	336,9	1328	57,5	x5	MR1-100
13-02-2021 10:02:30	5,72	13,42	1336	13	59	992	25,0	50,0	336,9	1325	57,5	x5	MR1-100
13-02-2021 10:02:31	5,72	13,49	1331	13	56	992	25,0	50,0	340,2	1320	57,3	x5	MR1-100
13-02-2021 10:02:32	5,72	13,65	1319	13	55	992	25,0	50,0	340,8	1309	56,6	x5	MR1-100
13-02-2021 10:02:33	5,72	13,77	1297	13	52	992	25,0	50,0	340,8	1287	56,4	x5	MR1-100
13-02-2021 10:02:34	5,72	13,77	1297	13	52	992	25,0	50,0	340,8	1287	56,4	x5	MR1-100
13-02-2021 10:02:35	5,72	13,78	1297	12	47	992	25,0	50,0	336,7	1287	56,4	x5	MR1-100
13-02-2021 10:02:36	5,45	13,68	1300	13	47	992	25,0	50,0	337,9	1290	56,3	x5	MR1-100
13-02-2021 10:02:37	5,45	13,70	1304	12	45	992	25,0	50,0	337,9	1294	56,2	x5	MR1-100
13-02-2021 10:02:38	5,45	13,79	1303	12	42	992	25,0	50,0	340,2	1294	56,0	x5	MR1-100
13-02-2021 10:02:39	5,45	13,87	1297	12	39	992	25,0	50,0	340,2	1288	55,8	x5	MR1-100
13-02-2021 10:02:40	5,45	13,83	1290	12	38	992	25,0	50,0	340,2	1281	55,7	x5	MR1-100
13-02-2021 10:02:41	5,45	13,78	1292	12	38	992	25,0	50,0	340,2	1282	55,6	x5	MR1-100
13-02-2021 10:02:42	5,42	13,75	1295	12	36	992	25,0	50,0	340,3	1286	55,4	x5	MR1-100
13-02-2021 10:02:43	5,42	13,75	1301	12	35	992	25,0	50,0	337,0	1292	55,1	x5	MR1-100
13-02-2021 10:02:44	5,42	13,74	1308	12	35	992	25,0	50,0	337,0	1299	55,5	x5	MR1-100


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13-02-2021	10:02:45	5,42	13,74	1311	12	34	992	25,0	50,0	342,1	1302	55,5	x5	MR1-100
13-02-2021	10:02:46	5,42	13,78	1303	12	34	992	25,0	50,0	342,6	1294	55,2	x5	MR1-100
13-02-2021	10:02:47	5,35	13,82	1298	12	29	992	25,0	50,0	342,6	1289	55,0	x5	MR1-100
13-02-2021	10:02:48	5,35	13,82	1297	12	29	992	25,0	50,0	342,6	1288	55,0	x5	MR1-100
13-02-2021	10:02:49	5,35	13,72	1301	12	29	992	25,0	50,0	343,2	1292	54,9	x5	MR1-100
13-02-2021	10:02:50	5,35	13,66	1303	12	27	992	25,0	50,0	339,3	1294	55,0	x5	MR1-100
13-02-2021	10:02:51	5,35	13,62	1305	12	27	992	25,0	50,0	339,3	1296	54,9	x5	MR1-100
13-02-2021	10:02:52	5,35	13,66	1309	12	25	992	25,0	50,0	340,7	1301	54,7	x5	MR1-100
13-02-2021	10:02:53	5,46	13,73	1306	12	23	992	25,0	50,0	340,7	1298	54,4	x5	MR1-100
13-02-2021	10:02:54	5,46	13,78	1300	12	23	992	25,0	50,0	344,8	1292	54,2	x5	MR1-100
13-02-2021	10:02:55	5,46	13,77	1295	12	22	992	25,0	50,0	345,3	1287	54,2	x5	MR1-100
13-02-2021	10:02:56	5,46	13,68	1296	12	21	992	25,0	50,0	345,3	1287	54,4	x5	MR1-100
13-02-2021	10:02:57	5,46	13,60	1308	12	19	992	25,0	50,0	348,6	1299	54,6	x5	MR1-100
13-02-2021	10:02:58	5,46	13,58	1322	12	20	992	25,0	50,0	348,6	1314	54,8	x5	MR1-100
13-02-2021	10:02:59	5,46	13,57	1333	13	20	992	25,0	50,0	337,6	1325	55,0	x5	MR1-100
13-02-2021	10:03:00	5,62	13,50	1339	13	20	992	25,0	50,0	337,6	1331	55,2	x5	MR1-100
13-02-2021	10:03:01	5,62	13,46	1343	13	21	992	25,0	50,0	334,6	1334	55,3	x5	MR1-100
13-02-2021	10:03:02	5,62	13,55	1335	13	19	992	25,0	50,0	334,6	1327	55,1	x5	MR1-100
13-02-2021	10:03:03	5,62	13,72	1317	13	17	992	25,0	50,0	334,6	1309	54,8	x5	MR1-100
13-02-2021	10:03:04	5,62	13,85	1303	13	17	992	25,0	50,0	338,9	1295	54,5	x5	MR1-100
13-02-2021	10:03:05	5,62	13,90	1293	13	15	992	25,0	50,0	338,9	1285	54,2	x5	MR1-100
13-02-2021	10:03:06	5,29	13,87	1283	13	8	992	25,0	50,0	337,2	1275	54,0	x5	MR1-100
13-02-2021	10:03:07	5,29	13,87	1281	12	8	992	25,0	50,0	337,2	1273	53,9	x5	MR1-100
13-02-2021	10:03:08	5,29	13,81	1289	12	6	992	25,0	50,0	339,7	1281	53,9	x5	MR1-100
13-02-2021	10:03:09	5,29	13,83	1294	13	6	992	25,0	50,0	339,7	1287	53,8	x5	MR1-100
13-02-2021	10:03:10	5,29	13,86	1293	12	5	992	25,0	50,0	341,8	1286	53,7	x5	MR1-100
13-02-2021	10:03:11	5,29	13,86	1292	12	5	992	25,0	50,0	346,4	1285	53,8	x5	MR1-100
13-02-2021	10:03:12	5,41	13,77	1299	12	5	992	25,0	50,0	346,4	1292	53,8	x5	MR1-100
13-02-2021	10:03:13	5,41	13,72	1311	12	6	992	25,0	50,0	344,7	1303	54,1	x5	MR1-100
13-02-2021	10:03:14	5,41	13,64	1321	12	6	992	25,0	50,0	344,7	1313	54,3	x5	MR1-100
13-02-2021	10:03:15	5,41	13,54	1331	13	6	992	25,0	50,0	338,4	1323	54,5	x5	MR1-100
13-02-2021	10:03:16	5,41	13,50	1335	12	6	992	25,0	50,0	336,8	1327	54,6	x5	MR1-100
13-02-2021	10:03:17	5,41	13,58	1332	13	6	992	25,0	50,0	336,8	1324	54,6	x5	MR1-100
13-02-2021	10:03:18	5,45	13,72	1322	13	6	992	25,0	50,0	336,6	1315	54,4	x5	MR1-100
13-02-2021	10:03:19	5,45	13,81	1309	13	2	992	25,0	50,0	336,6	1302	54,1	x5	MR1-100
13-02-2021	10:03:20	5,45	13,86	1299	12	0	992	25,0	50,0	340,4	1292	53,9	x5	MR1-100
13-02-2021	10:03:21	5,45	13,90	1293	12	0	992	25,0	50,0	345,8	1286	53,7	x5	MR1-100
13-02-2021	10:03:22	5,45	13,88	1286	12	0	992	25,0	50,0	345,8	1279	53,6	x5	MR1-100
13-02-2021	10:03:23	5,45	13,80	1288	12	0	992	25,0	50,0	341,4	1280	53,7	x5	MR1-100
13-02-2021	10:03:24	5,45	13,80	1299	12	0	992	25,0	50,0	341,4	1291	53,9	x5	MR1-100
13-02-2021	10:03:25	5,47	13,65	1314	12	0	992	25,0	50,0	341,4	1306	54,2	x5	MR1-100
13-02-2021	10:03:26	5,47	13,57	1324	12	0	992	25,0	50,0	341,4	1316	54,2	x5	MR1-100
13-02-2021	10:03:27	5,47	13,62	1321	12	0	992	25,0	50,0	339,9	1313	54,2	x5	MR1-100
13-02-2021	10:03:28	5,47	13,62	1321	12	0	992	25,0	50,0	339,9	1313	54,2	x5	MR1-100
13-02-2021	10:03:29	5,47	13,65	1318	12	0	992	25,0	50,0	340,2	1310	54,3	x5	MR1-100
13-02-2021	10:03:30	5,47	13,69	1319	12	0	992	25,0	50,0	338,8	1312	54,2	x5	MR1-100
13-02-2021	10:03:31	5,46	13,75	1323	12	0	992	25,0	50,0	338,8	1316	54,3	x5	MR1-100
13-02-2021	10:03:32	5,46	13,76	1323	12	0	992	25,0	50,0	335,6	1316	54,4	x5	MR1-100
13-02-2021	10:03:33	5,46	13,73	1320	12	0	992	25,0	50,0	335,6	1312	54,5	x5	MR1-100
13-02-2021	10:03:34	5,46	13,74	1313	12	0	992	25,0	50,0	337,7	1305	54,4	x5	MR1-100
13-02-2021	10:03:35	5,46	13,80	1305	12	0	992	25,0	50,0	337,7	1297	54,2	x5	MR1-100
13-02-2021	10:03:36	5,46	13,87	1298	11	0	992	25,0	50,0	338,4	1291	54,0	x5	MR1-100
13-02-2021	10:03:37	5,29	13,88	1294	12	0	992	25,0	50,0	336,4	1287	54,0	x5	MR1-100
13-02-2021	10:03:38	5,29	13,87	1301	12	0	992	25,0	50,0	336,4	1294	54,0	x5	MR1-100



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13-02-2021	10:03:39	5,29	13,87	1306	11	0	992	25,0	50,0	344,1	1299	54,1	x5	MR1-100
13-02-2021	10:03:40	5,29	13,89	1304	11	0	992	25,0	50,0	344,1	1297	54,1	x5	MR1-100
13-02-2021	10:03:41	5,29	13,85	1300	11	0	992	25,0	50,0	345,0	1293	54,1	x5	MR1-100
13-02-2021	10:03:42	5,42	13,72	1303	11	0	992	25,0	50,0	345,8	1295	54,2	x5	MR1-100
13-02-2021	10:03:43	5,42	13,64	1317	11	0	992	25,0	50,0	345,8	1309	54,3	x5	MR1-100
13-02-2021	10:03:44	5,42	13,64	1327	11	0	992	25,0	50,0	345,4	1320	54,3	x5	MR1-100
13-02-2021	10:03:45	5,42	13,64	1330	11	0	992	25,0	50,0	345,4	1323	54,2	x5	MR1-100
13-02-2021	10:03:46	5,42	13,64	1330	11	0	992	25,0	50,0	345,1	1323	54,2	x5	MR1-100
13-02-2021	10:03:47	5,42	13,59	1323	12	0	992	25,0	50,0	345,1	1315	54,4	x5	MR1-100
13-02-2021	10:03:48	5,42	13,53	1331	12	0	992	25,0	50,0	348,3	1323	54,5	x5	MR1-100
13-02-2021	10:03:49	5,59	13,55	1343	12	0	992	25,0	50,0	348,3	1335	54,7	x5	MR1-100
13-02-2021	10:03:50	5,59	13,54	1353	12	0	992	25,0	50,0	343,8	1345	54,9	x5	MR1-100
13-02-2021	10:03:51	5,59	13,44	1354	12	0	992	25,0	50,0	339,0	1346	55,1	x5	MR1-100
13-02-2021	10:03:52	5,59	13,44	1353	12	0	992	25,0	50,0	339,0	1345	55,3	x5	MR1-100
13-02-2021	10:03:53	5,59	13,42	1354	13	0	992	25,0	50,0	340,0	1346	55,2	x5	MR1-100
13-02-2021	10:03:54	5,59	13,56	1349	13	0	992	25,0	50,0	340,0	1341	55,1	x5	MR1-100
13-02-2021	10:03:55	5,50	13,66	1338	13	0	992	25,0	50,0	335,7	1330	54,8	x5	MR1-100
13-02-2021	10:03:56	5,50	13,66	1327	13	0	992	25,0	50,0	331,9	1319	54,6	x5	MR1-100
13-02-2021	10:03:57	5,50	13,68	1321	13	0	992	25,0	50,0	331,9	1313	54,6	x5	MR1-100
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13-02-2021	10:04:01	5,26	13,91	1296	12	0	992	25,0	50,0	336,6	1288	54,2	x5	MR1-100
13-02-2021	10:04:02	5,26	13,87	1297	11	0	992	25,0	50,0	336,6	1289	54,2	x5	MR1-100
13-02-2021	10:04:03	5,26	13,85	1302	11	0	992	25,0	50,0	337,9	1294	54,2	x5	MR1-100
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13-02-2021	10:04:05	5,26	13,85	1302	11	0	992	25,0	50,0	334,7	1295	54,2	x5	MR1-100
13-02-2021	10:04:06	5,26	13,80	1304	11	0	992	25,0	50,0	334,7	1296	54,1	x5	MR1-100
13-02-2021	10:04:07	5,42	13,81	1304	11	0	992	25,0	50,0	333,1	1297	54,0	x5	MR1-100
13-02-2021	10:04:08	5,42	13,86	1298	11	0	992	25,0	50,0	338,9	1291	53,8	x5	MR1-100
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13-02-2021	10:04:10	5,42	13,92	1283	11	0	992	25,0	50,0	338,9	1276	53,4	x5	MR1-100
13-02-2021	10:04:11	5,42	13,90	1280	11	0	992	25,0	50,0	342,1	1273	53,5	x5	MR1-100
13-02-2021	10:04:12	5,42	13,80	1286	11	0	992	25,0	50,0	344,4	1278	53,7	x5	MR1-100
13-02-2021	10:04:13	5,43	13,72	1299	11	0	992	25,0	50,0	344,4	1291	53,8	x5	MR1-100
13-02-2021	10:04:14	5,43	13,72	1310	11	0	992	25,0	50,0	340,1	1303	53,9	x5	MR1-100
13-02-2021	10:04:15	5,43	13,65	1324	11	0	992	25,0	50,0	335,3	1317	54,1	x5	MR1-100
13-02-2021	10:04:16	5,43	13,61	1332	11	0	992	25,0	50,0	335,3	1325	54,3	x5	MR1-100
13-02-2021	10:04:17	5,43	13,60	1331	11	0	992	25,0	50,0	342,2	1324	54,2	x5	MR1-100
13-02-2021	10:04:18	5,43	13,70	1323	11	0	992	25,0	50,0	342,2	1316	54,2	x5	MR1-100
13-02-2021	10:04:19	5,31	13,80	1313	11	0	992	25,0	50,0	342,1	1306	54,1	x5	MR1-100
13-02-2021	10:04:20	5,31	13,77	1304	11	0	992	25,0	50,0	342,1	1297	54,0	x5	MR1-100
13-02-2021	10:04:21	5,31	13,67	1310	11	0	992	25,0	50,0	339,1	1302	54,2	x5	MR1-100
13-02-2021	10:04:22	5,31	13,58	1316	11	0	992	25,0	50,0	342,0	1308	54,2	x5	MR1-100
13-02-2021	10:04:23	5,31	13,61	1318	11	0	992	25,0	50,0	342,0	1310	54,1	x5	MR1-100
13-02-2021	10:04:24	5,31	13,72	1317	11	0	992	25,0	50,0	344,3	1310	54,0	x5	MR1-100
13-02-2021	10:04:25	5,43	13,75	1314	11	0	992	25,0	50,0	344,3	1307	53,9	x5	MR1-100
13-02-2021	10:04:26	5,43	13,69	1314	11	0	992	25,0	50,0	342,2	1307	54,0	x5	MR1-100
13-02-2021	10:04:27	5,43	13,69	1319	11	0	992	25,0	50,0	342,2	1312	54,2	x5	MR1-100
13-02-2021	10:04:28	5,43	13,61	1327	11	0	992	25,0	50,0	339,1	1319	54,4	x5	MR1-100
13-02-2021	10:04:29	5,43	13,53	1332	11	0	992	25,0	50,0	339,1	1324	54,5	x5	MR1-100
13-02-2021	10:04:30	5,43	13,58	1338	11	0	992	25,0	50,0	334,1	1330	54,1	x5	MR1-100
13-02-2021	10:04:31	5,43	13,58	1338	11	0	992	25,0	50,0	334,9	1339	54,1	x5	MR1-100
13-02-2021	10:04:32	5,46	13,65	1330	11	0	992	25,0	50,0	334,9	1322	54,7	x5	MR1-100


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13-02-2021	10:04:33	5,46	13,74	1311	11	0	992	25,0	50,0	338,7	1303	54,4	x5	MR1-100
13-02-2021	10:04:34	5,46	13,92	1298	11	0	992	25,0	50,0	340,5	1291	54,0	x5	MR1-100
13-02-2021	10:04:35	5,46	13,90	1291	11	0	992	25,0	50,0	340,5	1284	53,9	x5	MR1-100
13-02-2021	10:04:36	5,46	13,82	1292	11	0	992	25,0	50,0	340,8	1284	53,8	x5	MR1-100
13-02-2021	10:04:37	5,38	13,77	1296	11	0	992	25,0	50,0	340,8	1289	53,7	x5	MR1-100
13-02-2021	10:04:38	5,38	13,74	1302	10	0	992	25,0	50,0	342,4	1295	53,7	x5	MR1-100
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13-02-2021	10:04:47	5,49	13,70	1319	11	0	992	25,0	50,0	341,6	1312	54,1	x5	MR1-100
13-02-2021	10:04:48	5,49	13,71	1316	10	0	992	25,0	50,0	341,6	1309	54,1	x5	MR1-100
13-02-2021	10:04:49	5,49	13,71	1316	10	0	992	25,0	50,0	339,5	1309	54,1	x5	MR1-100
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13-02-2021	10:04:56	5,33	13,86	1301	10	0	992	25,0	50,0	341,0	1294	53,8	x5	MR1-100
13-02-2021	10:04:57	5,33	13,76	1304	10	0	992	25,0	50,0	347,2	1297	53,8	x5	MR1-100
13-02-2021	10:04:58	5,33	13,74	1311	10	0	992	25,0	50,0	347,2	1304	53,9	x5	MR1-100
13-02-2021	10:04:59	5,33	13,74	1314	10	0	992	25,0	50,0	343,4	1307	53,9	x5	MR1-100
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13-02-2021	10:05:09	5,43	13,67	1331	11	0	992	25,0	50,0	337,8	1324	54,0	x5	MR1-100
13-02-2021	10:05:10	5,43	13,79	1329	11	0	992	25,0	50,0	340,9	1323	53,9	x5	MR1-100
13-02-2021	10:05:11	5,43	13,83	1320	11	0	992	25,0	50,0	341,5	1313	53,8	x5	MR1-100
13-02-2021	10:05:12	5,43	13,79	1312	11	0	992	25,0	50,0	341,5	1305	53,7	x5	MR1-100
13-02-2021	10:05:13	5,43	13,79	1316	10	0	992	25,0	50,0	340,5	1309	54,0	x5	MR1-100
13-02-2021	10:05:14	5,44	13,75	1328	10	0	992	25,0	50,0	340,5	1321	54,1	x5	MR1-100
13-02-2021	10:05:15	5,44	13,74	1333	11	0	992	25,0	50,0	343,5	1326	54,1	x5	MR1-100
13-02-2021	10:05:16	5,44	13,73	1329	10	0	992	25,0	50,0	344,9	1322	54,1	x5	MR1-100
13-02-2021	10:05:17	5,44	13,73	1324	10	0	992	25,0	50,0	344,9	1317	54,1	x5	MR1-100
13-02-2021	10:05:18	5,44	13,67	1324	10	0	992	25,0	50,0	348,2	1317	54,1	x5	MR1-100
13-02-2021	10:05:19	5,44	13,61	1329	10	0	992	25,0	50,0	348,2	1322	54,2	x5	MR1-100
13-02-2021	10:05:20	5,53	13,60	1334	10	0	992	25,0	50,0	345,2	1327	54,2	x5	MR1-100
13-02-2021	10:05:21	5,53	13,55	1341	10	0	992	25,0	50,0	345,2	1334	54,2	x5	MR1-100
13-02-2021	10:05:22	5,53	13,48	1344	10	0	992	25,0	50,0	339,0	1337	54,3	x5	MR1-100
13-02-2021	10:05:23	5,53	13,48	1346	10	0	992	25,0	50,0	339,0	1339	54,3	x5	MR1-100
13-02-2021	10:05:24	5,52	13,47	1346	10	0	992	25,0	50,0	337,6	1339	54,3	x5	MR1-100
13-02-2021	10:05:25	5,52	13,54	1346	11	0	992	25,0	50,0	337,6	1339	54,3	x5	MR1-100
13-02-2021	10:05:26	5,52	13,67	1335	11	0	992	25,0	50,0	338,4	1328	54,1	x5	MR1-100



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13-02-2021	10:05:27	5,36	13,78	1326	11	0	992	25,0	50,0	339,1	1320	53,8	x5	MR1-100
13-02-2021	10:05:28	5,36	13,76	1318	11	0	992	25,0	50,0	339,1	1311	53,8	x5	MR1-100
13-02-2021	10:05:29	5,36	13,76	1318	11	0	992	25,0	50,0	342,3	1311	53,8	x5	MR1-100
13-02-2021	10:05:30	5,37	13,73	1319	10	0	992	25,0	50,0	342,3	1312	53,8	x5	MR1-100
13-02-2021	10:05:31	5,37	13,74	1328	10	0	992	25,0	50,0	343,6	1321	53,8	x5	MR1-100
13-02-2021	10:05:32	5,37	13,76	1331	11	0	992	25,0	50,0	338,5	1325	53,8	x5	MR1-100
13-02-2021	10:05:33	5,49	13,72	1332	11	0	992	25,0	50,0	338,5	1325	53,8	x5	MR1-100
13-02-2021	10:05:34	5,49	13,64	1338	10	0	992	25,0	50,0	339,1	1331	54,0	x5	MR1-100
13-02-2021	10:05:35	5,49	13,59	1330	10	0	992	25,0	50,0	339,1	1323	54,0	x5	MR1-100
13-02-2021	10:05:36	5,49	13,60	1325	10	0	992	25,0	50,0	342,1	1318	54,0	x5	MR1-100
13-02-2021	10:05:37	5,49	13,71	1325	10	0	992	25,0	50,0	342,1	1318	54,1	x5	MR1-100
13-02-2021	10:05:38	5,49	13,68	1328	10	0	992	25,0	50,0	336,2	1321	54,3	x5	MR1-100
13-02-2021	10:05:39	5,47	13,62	1330	10	0	992	25,0	50,0	337,6	1323	54,3	x5	MR1-100
13-02-2021	10:05:40	5,47	13,62	1335	10	0	992	25,0	50,0	337,6	1328	54,4	x5	MR1-100
13-02-2021	10:05:41	5,47	13,81	1333	10	0	992	25,0	50,0	342,6	1326	54,2	x5	MR1-100
13-02-2021	10:05:42	5,47	13,85	1322	10	0	992	25,0	50,0	342,6	1315	54,1	x5	MR1-100
13-02-2021	10:05:43	5,47	13,76	1317	10	0	992	25,0	50,0	338,1	1310	54,2	x5	MR1-100
13-02-2021	10:05:44	5,47	13,76	1325	10	0	992	25,0	50,0	344,4	1318	54,2	x5	MR1-100
13-02-2021	10:05:45	5,51	13,65	1334	10	0	992	25,0	50,0	344,4	1327	54,5	x5	MR1-100
13-02-2021	10:05:46	5,51	13,65	1334	10	0	992	25,0	50,0	344,4	1327	54,5	x5	MR1-100
13-02-2021	10:05:47	5,51	13,70	1335	10	0	992	25,0	50,0	343,1	1328	54,5	x5	MR1-100
13-02-2021	10:05:48	5,51	13,68	1335	10	0	992	25,0	50,0	337,4	1328	54,6	x5	MR1-100
13-02-2021	10:05:49	5,51	13,59	1336	10	0	992	25,0	50,0	337,4	1328	54,7	x5	MR1-100
13-02-2021	10:05:50	5,51	13,53	1338	10	0	992	25,0	50,0	338,4	1330	54,6	x5	MR1-100
13-02-2021	10:05:51	5,47	13,71	1333	11	0	992	25,0	50,0	338,4	1326	54,5	x5	MR1-100
13-02-2021	10:05:52	5,47	13,75	1323	11	0	992	25,0	50,0	336,7	1316	54,4	x5	MR1-100
13-02-2021	10:05:53	5,47	13,75	1318	10	0	992	25,0	50,0	338,1	1311	54,4	x5	MR1-100
13-02-2021	10:05:54	5,47	13,76	1314	10	0	992	25,0	50,0	338,1	1307	54,2	x5	MR1-100
13-02-2021	10:05:55	5,47	13,75	1310	10	0	992	25,0	50,0	338,5	1303	54,1	x5	MR1-100
13-02-2021	10:05:56	5,47	13,76	1310	10	0	992	25,0	50,0	338,5	1303	54,1	x5	MR1-100
13-02-2021	10:05:57	5,47	13,77	1310	10	0	992	25,0	50,0	338,0	1303	54,0	x5	MR1-100
13-02-2021	10:05:58	5,39	13,76	1306	10	0	992	25,0	50,0	338,0	1299	53,9	x5	MR1-100
13-02-2021	10:05:59	5,39	13,76	1310	9	0	992	25,0	50,0	337,4	1303	53,9	x5	MR1-100
13-02-2021	10:06:00	5,39	13,75	1310	9	0	992	25,0	50,0	338,8	1303	53,9	x5	MR1-100
13-02-2021	10:06:01	5,39	13,79	1317	10	0	992	25,0	50,0	338,8	1310	53,9	x5	MR1-100
13-02-2021	10:06:02	5,39	13,83	1309	9	0	992	25,0	50,0	339,7	1302	53,8	x5	MR1-100
13-02-2021	10:06:03	5,38	13,83	1310	9	0	992	25,0	50,0	339,7	1303	53,7	x5	MR1-100
13-02-2021	10:06:04	5,38	13,82	1311	9	0	992	25,0	50,0	345,4	1304	53,8	x5	MR1-100
13-02-2021	10:06:05	5,38	13,76	1311	9	0	992	25,0	50,0	345,4	1304	53,9	x5	MR1-100
13-02-2021	10:06:06	5,38	13,65	1318	9	0	992	25,0	50,0	342,0	1310	54,1	x5	MR1-100
13-02-2021	10:06:07	5,38	13,65	1331	9	0	992	25,0	50,0	341,6	1324	54,1	x5	MR1-100
13-02-2021	10:06:08	5,38	13,58	1339	10	0	992	25,0	50,0	341,6	1332	54,3	x5	MR1-100
13-02-2021	10:06:09	5,50	13,60	1334	10	0	992	25,0	50,0	340,3	1327	54,3	x5	MR1-100
13-02-2021	10:06:10	5,50	13,66	1326	10	0	992	25,0	50,0	340,4	1319	54,2	x5	MR1-100
13-02-2021	10:06:11	5,50	13,68	1324	10	0	992	25,0	50,0	340,4	1317	54,2	x5	MR1-100
13-02-2021	10:06:12	5,50	13,70	1326	10	0	992	25,0	50,0	339,4	1319	54,2	x5	MR1-100
13-02-2021	10:06:13	5,50	13,70	1326	10	0	992	25,0	50,0	339,4	1319	54,4	x5	MR1-100
13-02-2021	10:06:14	5,50	13,69	1326	10	0	992	25,0	50,0	340,0	1319	54,4	x5	MR1-100
13-02-2021	10:06:15	5,50	13,67	1326	10	0	992	25,0	50,0	340,0	1319	54,4	x5	MR1-100
13-02-2021	10:06:16	5,42	13,67	1328	10	0	992	25,0	50,0	340,6	1321	54,5	x5	MR1-100
13-02-2021	10:06:17	5,42	13,70	1328	10	0	992	25,0	50,0	340,6	1321	54,5	x5	MR1-100
13-02-2021	10:06:18	5,42	13,72	1330	10	0	992	25,0	50,0	338,8	1323	54,6	x5	MR1-100
13-02-2021	10:06:19	5,42	13,73	1331	10	0	992	25,0	50,0	337,5	1324	54,6	x5	MR1-100
13-02-2021	10:18:38	5,23	13,98	1247	11	95	992	25,0	50,0	323,9	1235	54,2	x5	MR1-100


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13-02-2021 10:18:39	5,23	14,02	1238	11	89	992	25,0	50,0	332,7	1226	57,3	x5	MR1-100
13-02-2021 10:18:40	5,23	14,07	1234	11	85	992	25,0	50,0	341,6	1221	57,5	x5	MR1-100
13-02-2021 10:18:41	5,23	14,07	1234	11	82	992	25,0	50,0	341,6	1221	57,5	x5	MR1-100
13-02-2021 10:18:42	5,23	14,05	1252	11	79	992	25,0	50,0	340,4	1240	58,0	x5	MR1-100
13-02-2021 10:18:43	5,23	13,69	1275	11	80	992	25,0	50,0	340,4	1262	58,5	x5	MR1-100
13-02-2021 10:18:44	5,49	13,53	1299	11	79	992	25,0	50,0	340,3	1285	59,0	x5	MR1-100
13-02-2021 10:18:45	5,49	13,50	1315	11	79	992	25,0	50,0	337,9	1301	60,1	x5	MR1-100
13-02-2021 10:18:46	5,49	13,50	1325	12	82	992	25,0	50,0	337,9	1311	60,4	x5	MR1-100
13-02-2021 10:18:47	5,49	13,51	1324	12	81	992	25,0	50,0	339,1	1310	60,4	x5	MR1-100
13-02-2021 10:18:48	5,49	13,57	1319	12	81	992	25,0	50,0	339,1	1305	60,4	x5	MR1-100
13-02-2021 10:18:49	5,48	13,64	1318	12	78	992	25,0	50,0	338,9	1304	60,6	x5	MR1-100
13-02-2021 10:18:50	5,48	13,67	1321	12	78	992	25,0	50,0	338,9	1307	60,7	x5	MR1-100
13-02-2021 10:18:51	5,48	13,67	1323	12	75	992	25,0	50,0	335,7	1309	60,7	x5	MR1-100
13-02-2021 10:18:52	5,48	13,66	1320	12	74	992	25,0	50,0	336,9	1306	60,7	x5	MR1-100
13-02-2021 10:18:53	5,48	13,69	1314	12	73	992	25,0	50,0	336,9	1300	60,6	x5	MR1-100
13-02-2021 10:18:54	5,48	13,69	1314	12	70	992	25,0	50,0	337,7	1300	60,3	x5	MR1-100
13-02-2021 10:18:55	5,48	13,75	1303	12	66	992	25,0	50,0	337,7	1289	60,2	x5	MR1-100
13-02-2021 10:18:56	5,38	13,78	1306	12	65	992	25,0	50,0	339,0	1292	60,2	x5	MR1-100
13-02-2021 10:18:57	5,38	13,75	1303	12	63	992	25,0	50,0	339,0	1289	60,1	x5	MR1-100
13-02-2021 10:18:58	5,38	13,75	1303	12	61	992	25,0	50,0	339,0	1289	59,9	x5	MR1-100
13-02-2021 10:18:59	5,38	13,71	1302	12	58	992	25,0	50,0	341,1	1288	59,7	x5	MR1-100
13-02-2021 10:19:00	5,38	13,71	1307	11	57	992	25,0	50,0	341,1	1294	59,4	x5	MR1-100
13-02-2021 10:19:01	5,38	13,77	1307	11	56	992	25,0	50,0	340,9	1295	59,1	x5	MR1-100
13-02-2021 10:19:02	5,42	13,71	1308	12	54	992	25,0	50,0	340,9	1295	58,9	x5	MR1-100
13-02-2021 10:19:03	5,42	13,63	1310	12	53	992	25,0	50,0	345,4	1297	58,7	x5	MR1-100
13-02-2021 10:19:04	5,42	13,63	1309	12	51	992	25,0	50,0	345,4	1297	58,6	x5	MR1-100
13-02-2021 10:19:05	5,42	13,63	1319	12	50	992	25,0	50,0	345,4	1307	58,4	x5	MR1-100
13-02-2021 10:19:06	5,42	13,61	1322	12	49	992	25,0	50,0	340,2	1310	58,2	x5	MR1-100
13-02-2021 10:19:07	5,42	13,54	1329	12	48	992	25,0	50,0	340,2	1317	58,2	x5	MR1-100
13-02-2021 10:19:08	5,64	13,52	1335	12	47	992	25,0	50,0	335,5	1324	58,1	x5	MR1-100
13-02-2021 10:19:09	5,64	13,52	1335	12	47	992	25,0	50,0	335,5	1324	58,1	x5	MR1-100
13-02-2021 10:19:10	5,64	13,66	1328	12	46	992	25,0	50,0	336,6	1317	58,0	x5	MR1-100
13-02-2021 10:19:11	5,64	13,76	1316	12	44	992	25,0	50,0	338,2	1305	57,7	x5	MR1-100
13-02-2021 10:19:12	5,64	13,82	1305	12	41	992	25,0	50,0	338,2	1294	57,4	x5	MR1-100
13-02-2021 10:19:13	5,64	13,84	1303	12	39	992	25,0	50,0	337,0	1292	57,2	x5	MR1-100
13-02-2021 10:19:14	5,32	13,82	1301	12	38	992	25,0	50,0	337,0	1290	57,1	x5	MR1-100
13-02-2021 10:19:15	5,32	13,82	1297	12	37	992	25,0	50,0	340,2	1287	56,8	x5	MR1-100
13-02-2021 10:19:16	5,33	13,83	1296	12	33	992	25,0	50,0	344,0	1286	56,6	x5	MR1-100
13-02-2021 10:19:17	5,33	13,83	1296	12	33	992	25,0	50,0	344,0	1286	56,6	x5	MR1-100
13-02-2021 10:19:18	5,33	13,83	1297	11	31	992	25,0	50,0	344,0	1287	56,6	x5	MR1-100
13-02-2021 10:19:19	5,33	13,80	1313	11	30	992	25,0	50,0	344,2	1303	56,7	x5	MR1-100
13-02-2021 10:19:20	5,49	13,64	1325	12	31	992	25,0	50,0	343,3	1315	56,9	x5	MR1-100
13-02-2021 10:19:21	5,49	13,58	1334	12	30	992	25,0	50,0	343,3	1324	57,0	x5	MR1-100
13-02-2021 10:19:22	5,49	13,57	1340	12	31	992	25,0	50,0	341,4	1330	57,1	x5	MR1-100
13-02-2021 10:19:23	5,49	13,57	1341	12	30	992	25,0	50,0	341,4	1331	57,2	x5	MR1-100
13-02-2021 10:19:24	5,49	13,57	1340	12	30	992	25,0	50,0	339,3	1330	57,2	x5	MR1-100
13-02-2021 10:19:25	5,49	13,61	1338	12	29	992	25,0	50,0	339,3	1328	57,2	x5	MR1-100
13-02-2021 10:19:26	5,48	13,69	1333	12	29	992	25,0	50,0	341,0	1323	57,1	x5	MR1-100
13-02-2021 10:19:27	5,48	13,75	1326	12	26	992	25,0	50,0	341,1	1316	56,7	x5	MR1-100
13-02-2021 10:19:28	5,48	13,77	1320	12	24	992	25,0	50,0	341,1	1310	56,6	x5	MR1-100
13-02-2021 10:19:29	5,47	13,76	1320	13	23	992	25,0	50,0	343,7	1310	56,6	x5	MR1-100
13-02-2021 10:19:30	5,47	13,72	1321	12	20	992	25,0	50,0	343,7	1311	56,5	x5	MR1-100
13-02-2021 10:19:31	5,47	13,72	1320	12	19	992	25,0	50,0	341,9	1311	56,4	x5	MR1-100
13-02-2021 10:19:32	5,47	13,68	1322	12	18	992	25,0	50,0	341,9	1312	56,4	x5	MR1-100


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13-02-2021 10:19:33	5,51	13,63	1332	12	17	992	25,0	50,0	341,3	1323	56,4	x5	MR1-100
13-02-2021 10:19:34	5,51	13,64	1334	12	17	992	25,0	50,0	344,0	1325	56,5	x5	MR1-100
13-02-2021 10:19:35	5,51	13,64	1329	12	17	992	25,0	50,0	344,0	1320	56,3	x5	MR1-100
13-02-2021 10:19:36	5,51	13,64	1329	12	15	992	25,0	50,0	343,2	1320	56,3	x5	MR1-100
13-02-2021 10:19:37	5,51	13,61	1322	12	15	992	25,0	50,0	343,2	1312	56,1	x5	MR1-100
13-02-2021 10:19:38	5,51	13,60	1326	13	12	992	25,0	50,0	348,9	1317	56,0	x5	MR1-100
13-02-2021 10:19:39	5,55	13,59	1331	13	12	992	25,0	50,0	339,9	1322	56,1	x5	MR1-100
13-02-2021 10:19:40	5,55	13,51	1338	13	13	992	25,0	50,0	339,9	1329	56,2	x5	MR1-100
13-02-2021 10:19:41	5,55	13,37	1348	13	12	992	25,0	50,0	334,7	1338	56,7	x5	MR1-100
13-02-2021 10:19:42	5,55	13,34	1355	13	12	992	25,0	50,0	334,7	1345	56,7	x5	MR1-100
13-02-2021 10:19:43	5,55	13,50	1351	14	12	992	25,0	50,0	330,2	1342	56,7	x5	MR1-100
13-02-2021 10:19:44	5,55	13,50	1351	14	12	992	25,0	50,0	330,2	1342	56,4	x5	MR1-100
13-02-2021 10:19:45	5,42	13,69	1337	14	10	992	25,0	50,0	330,4	1328	56,2	x5	MR1-100
13-02-2021 10:19:46	5,42	13,83	1309	13	10	992	25,0	50,0	337,1	1300	55,9	x5	MR1-100
13-02-2021 10:19:47	5,42	14,05	1296	13	6	992	25,0	50,0	337,1	1288	55,6	x5	MR1-100
13-02-2021 10:19:48	5,42	14,10	1286	13	3	992	25,0	50,0	334,9	1278	55,3	x5	MR1-100
13-02-2021 10:19:49	5,42	14,02	1283	13	2	992	25,0	50,0	334,9	1274	55,3	x5	MR1-100
13-02-2021 10:19:50	5,37	13,87	1289	12	1	992	25,0	50,0	336,3	1280	55,3	x5	MR1-100
13-02-2021 10:19:51	5,37	13,87	1289	12	0	992	25,0	50,0	336,3	1280	55,4	x5	MR1-100
13-02-2021 10:19:52	5,37	13,84	1297	12	0	992	25,0	50,0	336,3	1288	55,2	x5	MR1-100
13-02-2021 10:19:53	5,37	13,85	1294	12	0	992	25,0	50,0	337,8	1285	55,1	x5	MR1-100
13-02-2021 10:19:54	5,37	13,84	1294	12	0	992	25,0	50,0	337,8	1285	55,1	x5	MR1-100
13-02-2021 10:19:55	5,37	13,84	1294	12	0	992	25,0	50,0	345,3	1285	55,1	x5	MR1-100
13-02-2021 10:19:56	5,37	13,83	1300	12	0	992	25,0	50,0	345,3	1291	55,2	x5	MR1-100
13-02-2021 10:19:57	5,31	13,82	1305	11	0	992	25,0	50,0	349,0	1297	55,2	x5	MR1-100
13-02-2021 10:19:58	5,31	13,71	1317	12	0	992	25,0	50,0	343,0	1308	55,4	x5	MR1-100
13-02-2021 10:19:59	5,31	13,57	1333	12	1	992	25,0	50,0	343,0	1324	55,6	x5	MR1-100
13-02-2021 10:20:00	5,31	13,45	1348	12	1	992	25,0	50,0	344,8	1339	56,2	x5	MR1-100
13-02-2021 10:20:01	5,31	13,42	1359	12	4	992	25,0	50,0	344,8	1350	56,3	x5	MR1-100
13-02-2021 10:20:02	5,31	13,50	1359	12	4	992	25,0	50,0	343,2	1350	56,3	x5	MR1-100
13-02-2021 10:20:03	5,56	13,50	1359	12	4	992	25,0	50,0	343,2	1350	56,1	x5	MR1-100
13-02-2021 10:20:04	5,56	13,52	1350	13	3	992	25,0	50,0	337,6	1341	55,9	x5	MR1-100
13-02-2021 10:20:05	5,56	13,51	1341	13	1	992	25,0	50,0	337,6	1332	55,7	x5	MR1-100
13-02-2021 10:20:06	5,56	13,62	1334	13	0	992	25,0	50,0	335,2	1325	55,5	x5	MR1-100
13-02-2021 10:20:07	5,56	13,71	1320	13	0	992	25,0	50,0	331,9	1312	55,2	x5	MR1-100
13-02-2021 10:20:08	5,56	13,75	1313	12	0	992	25,0	50,0	331,9	1305	55,0	x5	MR1-100
13-02-2021 10:20:09	5,37	13,75	1313	12	0	992	25,0	50,0	338,7	1305	54,9	x5	MR1-100
13-02-2021 10:20:10	5,37	13,83	1299	12	0	992	25,0	50,0	338,7	1291	54,7	x5	MR1-100
13-02-2021 10:20:11	5,37	13,96	1288	12	0	992	25,0	50,0	344,8	1280	54,5	x5	MR1-100
13-02-2021 10:20:12	5,37	13,87	1288	12	0	992	25,0	50,0	346,2	1280	54,5	x5	MR1-100
13-02-2021 10:20:13	5,37	13,71	1306	11	0	992	25,0	50,0	346,2	1298	54,8	x5	MR1-100
13-02-2021 10:20:14	5,37	13,71	1307	11	0	992	25,0	50,0	341,7	1298	55,0	x5	MR1-100
13-02-2021 10:20:15	5,60	13,60	1339	12	0	992	25,0	50,0	341,7	1331	55,2	x5	MR1-100
13-02-2021 10:20:16	5,60	13,51	1347	11	0	992	25,0	50,0	338,9	1339	55,4	x5	MR1-100
13-02-2021 10:20:17	5,60	13,54	1353	12	0	992	25,0	50,0	344,9	1345	55,5	x5	MR1-100
13-02-2021 10:20:18	5,59	13,65	1352	12	0	992	25,0	50,0	344,9	1344	55,5	x5	MR1-100
13-02-2021 10:20:19	5,59	13,65	1341	12	0	992	25,0	50,0	343,0	1333	55,5	x5	MR1-100
13-02-2021 10:20:20	5,59	13,66	1329	12	0	992	25,0	50,0	343,0	1321	55,4	x5	MR1-100
13-02-2021 10:20:21	5,59	13,66	1329	12	0	992	25,0	50,0	343,1	1321	55,5	x5	MR1-100
13-02-2021 10:20:22	5,51	13,56	1335	12	0	992	25,0	50,0	343,1	1326	55,8	x5	MR1-100
13-02-2021 10:20:23	5,51	13,49	1351	12	0	992	25,0	50,0	338,1	1342	55,8	x5	MR1-100
13-02-2021 10:20:24	5,51	13,55	1352	13	0	992	25,0	50,0	338,1	1344	55,9	x5	MR1-100
13-02-2021 10:20:25	5,51	13,55	1352	12	0	992	25,0	50,0	334,5	1343	55,9	x5	MR1-100
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13-02-2021 10:20:27	5,51	13,59	1343	13	0	992	25,0	50,0	334,5	1335	55,5	x5	MR1-100
13-02-2021 10:20:28	5,43	13,72	1314	13	0	992	25,0	50,0	333,2	1306	55,1	x5	MR1-100
13-02-2021 10:20:29	5,43	13,86	1308	13	0	992	25,0	50,0	333,2	1300	54,9	x5	MR1-100
13-02-2021 10:20:30	5,43	13,88	1304	12	0	992	25,0	50,0	335,1	1296	54,8	x5	MR1-100
13-02-2021 10:20:31	5,43	13,88	1296	12	0	992	25,0	50,0	335,1	1288	54,6	x5	MR1-100
13-02-2021 10:20:32	5,43	13,89	1294	12	0	992	25,0	50,0	336,3	1286	54,4	x5	MR1-100
13-02-2021 10:20:33	5,43	13,89	1296	12	0	992	25,0	50,0	343,6	1288	54,4	x5	MR1-100
13-02-2021 10:20:34	5,28	13,89	1296	12	0	992	25,0	50,0	343,6	1288	54,5	x5	MR1-100
13-02-2021 10:20:35	5,28	13,90	1300	12	0	992	25,0	50,0	343,6	1292	54,5	x5	MR1-100
13-02-2021 10:20:36	5,28	13,87	1301	11	0	992	25,0	50,0	344,0	1293	54,5	x5	MR1-100
13-02-2021 10:20:37	5,28	13,78	1321	12	0	992	25,0	50,0	343,2	1313	54,8	x5	MR1-100
13-02-2021 10:20:38	5,28	13,64	1321	12	0	992	25,0	50,0	343,2	1313	55,0	x5	MR1-100
13-02-2021 10:20:39	5,28	13,57	1338	11	0	992	25,0	50,0	343,6	1330	55,2	x5	MR1-100
13-02-2021 10:20:40	5,57	13,59	1347	12	0	992	25,0	50,0	343,6	1339	55,3	x5	MR1-100
13-02-2021 10:20:41	5,57	13,60	1346	12	0	992	25,0	50,0	338,6	1338	55,4	x5	MR1-100
13-02-2021 10:20:42	5,57	13,55	1348	12	0	992	25,0	50,0	338,6	1340	55,6	x5	MR1-100
13-02-2021 10:20:43	5,57	13,61	1346	12	0	992	25,0	50,0	340,1	1338	55,5	x5	MR1-100
13-02-2021 10:20:44	5,57	13,70	1336	12	0	992	25,0	50,0	338,7	1328	55,4	x5	MR1-100
13-02-2021 10:20:45	5,57	13,70	1336	12	0	992	25,0	50,0	338,7	1328	55,3	x5	MR1-100
13-02-2021 10:20:46	5,42	13,73	1327	12	0	992	25,0	50,0	340,0	1319	55,3	x5	MR1-100
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13-02-2021 10:20:48	5,42	13,74	1327	11	0	992	25,0	50,0	338,4	1319	55,3	x5	MR1-100
13-02-2021 10:20:49	5,41	13,76	1333	12	0	992	25,0	50,0	341,2	1325	55,3	x5	MR1-100
13-02-2021 10:20:50	5,41	13,76	1333	12	0	992	25,0	50,0	341,2	1325	55,3	x5	MR1-100
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13-02-2021 10:21:02	5,61	13,63	1342	12	0	992	25,0	50,0	338,3	1334	55,3	x5	MR1-100
13-02-2021 10:21:03	5,61	13,67	1335	12	0	992	25,0	50,0	334,6	1327	55,3	x5	MR1-100
13-02-2021 10:21:04	5,36	13,69	1319	12	0	992	25,0	50,0	334,6	1311	55,1	x5	MR1-100
13-02-2021 10:21:05	5,36	13,69	1319	12	0	992	25,0	50,0	334,4	1311	55,0	x5	MR1-100
13-02-2021 10:21:06	5,36	13,82	1322	12	0	992	25,0	50,0	334,4	1314	54,9	x5	MR1-100
13-02-2021 10:21:07	5,36	13,91	1315	11	0	992	25,0	50,0	336,9	1308	54,7	x5	MR1-100
13-02-2021 10:21:08	5,36	13,91	1315	11	0	992	25,0	50,0	340,1	1308	54,4	x5	MR1-100
13-02-2021 10:21:09	5,36	13,94	1302	11	0	992	25,0	50,0	340,1	1295	54,4	x5	MR1-100
13-02-2021 10:21:10	5,30	13,83	1303	11	0	992	25,0	50,0	342,9	1295	54,3	x5	MR1-100
13-02-2021 10:21:11	5,30	13,82	1313	11	0	992	25,0	50,0	342,9	1306	54,4	x5	MR1-100
13-02-2021 10:21:12	5,30	13,78	1320	11	0	992	25,0	50,0	345,4	1313	54,4	x5	MR1-100
13-02-2021 10:21:13	5,30	13,78	1320	11	0	992	25,0	50,0	345,4	1313	54,6	x5	MR1-100
13-02-2021 10:21:14	5,30	13,71	1330	11	0	992	25,0	50,0	343,5	1323	54,7	x5	MR1-100
13-02-2021 10:21:15	5,30	13,63	1331	11	0	992	25,0	50,0	343,5	1323	54,8	x5	MR1-100
13-02-2021 10:21:16	5,30	13,56	1334	11	0	992	25,0	50,0	348,4	1326	54,8	x5	MR1-100
13-02-2021 10:21:17	5,56	13,58	1337	11	0	992	25,0	50,0	347,5	1329	54,8	x5	MR1-100
13-02-2021 10:21:18	5,56	13,60	1347	11	0	992	25,0	50,0	347,5	1329	54,9	x5	MR1-100
13-02-2021 10:21:19	5,56	13,47	1355	11	0	992	25,0	50,0	347,5	1347	55,1	x5	MR1-100
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13-02-2021	10:21:21	5,56	13,43	1359	12	0	992	25,0	50,0	343,5	1351	55,2	x5	MR1-100
13-02-2021	10:21:22	5,56	13,44	1354	12	0	992	25,0	50,0	339,5	1346	55,2	x5	MR1-100
13-02-2021	10:21:23	5,66	13,41	1355	12	0	992	25,0	50,0	339,5	1347	55,2	x5	MR1-100
13-02-2021	10:21:24	5,66	13,41	1355	12	0	992	25,0	50,0	335,6	1347	55,3	x5	MR1-100
13-02-2021	10:21:25	5,66	13,47	1355	13	0	992	25,0	50,0	335,6	1347	55,3	x5	MR1-100
13-02-2021	10:21:26	5,66	13,55	1350	13	0	992	25,0	50,0	334,8	1342	55,1	x5	MR1-100
13-02-2021	10:21:27	5,66	13,64	1334	13	0	992	25,0	50,0	336,4	1326	55,1	x5	MR1-100
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13-02-2021	10:21:29	5,35	13,87	1324	12	0	992	25,0	50,0	335,4	1317	54,8	x5	MR1-100
13-02-2021	10:21:30	5,35	13,87	1319	12	0	992	25,0	50,0	335,4	1312	54,6	x5	MR1-100
13-02-2021	10:21:31	5,35	13,87	1315	11	0	992	25,0	50,0	334,8	1308	54,5	x5	MR1-100
13-02-2021	10:21:32	5,35	13,85	1315	11	0	992	25,0	50,0	334,8	1308	54,5	x5	MR1-100
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13-02-2021	10:21:35	5,26	13,92	1311	10	0	992	25,0	50,0	336,9	1304	54,4	x5	MR1-100
13-02-2021	10:21:36	5,26	13,89	1310	11	0	992	25,0	50,0	336,9	1303	54,4	x5	MR1-100
13-02-2021	10:21:37	5,26	13,84	1310	11	0	992	25,0	50,0	341,8	1303	54,4	x5	MR1-100
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13-02-2021	10:21:39	5,26	13,86	1314	10	0	992	25,0	50,0	343,7	1307	54,2	x5	MR1-100
13-02-2021	10:21:40	5,26	13,80	1324	10	0	992	25,0	50,0	345,7	1317	54,4	x5	MR1-100
13-02-2021	10:21:41	5,47	13,73	1330	10	0	992	25,0	50,0	349,2	1323	54,4	x5	MR1-100
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13-02-2021	10:21:43	5,47	13,61	1337	11	0	992	25,0	50,0	346,2	1329	54,7	x5	MR1-100
13-02-2021	10:21:44	5,46	13,55	1346	11	0	992	25,0	50,0	346,2	1338	55,0	x5	MR1-100
13-02-2021	10:21:45	5,46	13,48	1371	11	0	992	25,0	50,0	339,3	1363	55,3	x5	MR1-100
13-02-2021	10:21:46	5,46	13,39	1378	11	0	992	25,0	50,0	339,3	1370	55,5	x5	MR1-100
13-02-2021	10:21:47	5,67	13,52	1373	11	0	992	25,0	50,0	339,2	1366	55,5	x5	MR1-100
13-02-2021	10:21:48	5,67	13,69	1359	12	0	992	25,0	50,0	337,6	1352	55,2	x5	MR1-100
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13-02-2021	10:21:50	5,67	13,74	1327	11	0	992	25,0	50,0	340,8	1319	54,7	x5	MR1-100
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13-02-2021	10:21:56	5,36	13,69	1331	11	0	992	25,0	50,0	340,3	1324	54,6	x5	MR1-100
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13-02-2021	10:22:02	5,34	13,60	1339	11	0	992	25,0	50,0	343,6	1332	54,5	x5	MR1-100
13-02-2021	10:22:03	5,34	13,56	1349	11	0	992	25,0	50,0	343,6	1342	54,7	x5	MR1-100
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13-02-2021	10:22:06	5,61	13,51	1356	11	0	992	25,0	50,0	346,3	1348	54,9	x5	MR1-100
13-02-2021	10:22:07	5,61	13,56	1354	11	0	992	25,0	50,0	346,3	1347	55,0	x5	MR1-100
13-02-2021	10:22:08	5,61	13,56	1362	11	0	992	25,0	50,0	344,2	1355	55,2	x5	MR1-100
13-02-2021	10:22:09	5,61	13,49	1373	12	0	992	25,0	50,0	341,8	1366	55,4	x5	MR1-100
13-02-2021	10:22:10	5,61	13,50	1379	12	0	992	25,0	50,0	341,8	1372	55,5	x5	MR1-100
13-02-2021	10:22:11	5,61	13,50	1379	12	0	992	25,0	50,0	336,7	1372	55,6	x5	MR1-100
13-02-2021	10:22:12	5,59	13,52	1378	12	0	992	25,0	50,0	336,7	1371	55,5	x5	MR1-100
13-02-2021	10:22:13	5,59	13,53	1371	12	0	992	25,0	50,0	334,0	1363	55,5	x5	MR1-100
13-02-2021	10:22:14	5,59	13,58	1361	12	0	992	25,0	50,0	334,0	1353	55,4	x5	MR1-100


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13-02-2021 10:22:15	5,59	13,66	1351	12	0	992	25,0	50,0	331,7	1343	55,3	x5	MR1-100
13-02-2021 10:22:16	5,59	13,73	1338	11	0	992	25,0	50,0	335,0	1331	55,0	x5	MR1-100
13-02-2021 10:22:17	5,59	13,83	1318	11	0	992	25,0	50,0	335,0	1311	54,6	x5	MR1-100
13-02-2021 10:22:18	5,26	13,92	1318	11	0	992	25,0	50,0	337,7	1311	54,6	x5	MR1-100
13-02-2021 10:22:19	5,26	14,01	1308	11	0	992	25,0	50,0	337,7	1301	54,1	x5	MR1-100
13-02-2021 10:22:20	5,26	13,98	1299	11	0	992	25,0	50,0	338,9	1292	54,0	x5	MR1-100
13-02-2021 10:22:21	5,27	13,91	1309	10	0	992	25,0	50,0	338,9	1302	54,1	x5	MR1-100
13-02-2021 10:22:22	5,27	13,87	1315	10	0	992	25,0	50,0	343,5	1308	54,0	x5	MR1-100
13-02-2021 10:22:23	5,36	13,80	1319	10	0	992	25,0	50,0	341,1	1312	54,2	x5	MR1-100
13-02-2021 10:22:24	5,36	13,70	1325	10	0	992	25,0	50,0	341,1	1318	54,2	x5	MR1-100
13-02-2021 10:22:25	5,36	13,70	1325	10	0	992	25,0	50,0	345,6	1318	54,3	x5	MR1-100
13-02-2021 10:22:26	5,36	13,63	1333	10	0	992	25,0	50,0	345,6	1326	54,3	x5	MR1-100
13-02-2021 10:22:27	5,36	13,64	1337	10	0	992	25,0	50,0	339,3	1330	54,3	x5	MR1-100
13-02-2021 10:22:28	5,36	13,61	1342	10	0	992	25,0	50,0	340,1	1335	54,5	x5	MR1-100
13-02-2021 10:22:29	5,36	13,61	1342	10	0	992	25,0	50,0	340,1	1335	54,5	x5	MR1-100
13-02-2021 10:22:30	5,56	13,64	1349	11	0	992	25,0	50,0	340,1	1342	54,3	x5	MR1-100
13-02-2021 10:22:31	5,56	13,71	1341	10	0	992	25,0	50,0	342,9	1334	54,3	x5	MR1-100
13-02-2021 10:22:32	5,56	13,77	1331	11	0	992	25,0	50,0	340,5	1324	54,2	x5	MR1-100
13-02-2021 10:22:33	5,56	13,73	1326	11	0	992	25,0	50,0	340,5	1319	54,3	x5	MR1-100
13-02-2021 10:22:34	5,56	13,67	1332	11	0	992	25,0	50,0	343,3	1325	54,3	x5	MR1-100
13-02-2021 10:22:35	5,56	13,65	1334	11	0	992	25,0	50,0	343,3	1327	54,3	x5	MR1-100
13-02-2021 10:22:36	5,42	13,64	1332	11	0	992	25,0	50,0	343,9	1325	54,3	x5	MR1-100
13-02-2021 10:22:37	5,42	13,65	1337	11	0	992	25,0	50,0	345,7	1330	54,6	x5	MR1-100
13-02-2021 10:22:38	5,42	13,63	1342	11	0	992	25,0	50,0	345,7	1335	54,6	x5	MR1-100
13-02-2021 10:22:39	5,42	13,62	1346	11	0	992	25,0	50,0	344,2	1339	54,8	x5	MR1-100
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13-02-2021 10:22:41	5,42	13,54	1357	11	0	992	25,0	50,0	342,2	1350	54,9	x5	MR1-100
13-02-2021 10:22:42	5,56	13,54	1357	11	0	992	25,0	50,0	342,2	1350	54,9	x5	MR1-100
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13-02-2021 10:22:44	5,56	13,53	1353	11	0	992	25,0	50,0	340,5	1345	54,9	x5	MR1-100
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13-02-2021 10:22:50	5,41	13,70	1349	11	0	992	25,0	50,0	343,9	1342	54,9	x5	MR1-100
13-02-2021 10:22:51	5,41	13,71	1346	11	0	992	25,0	50,0	342,8	1339	54,8	x5	MR1-100
13-02-2021 10:22:52	5,41	13,61	1343	11	0	992	25,0	50,0	342,8	1335	54,9	x5	MR1-100
13-02-2021 10:22:53	5,41	13,52	1353	11	0	992	25,0	50,0	341,7	1345	54,9	x5	MR1-100
13-02-2021 10:22:54	5,54	13,51	1354	11	0	992	25,0	50,0	341,7	1346	54,9	x5	MR1-100
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13-02-2021 10:22:58	5,54	13,54	1343	11	0	992	25,0	50,0	336,5	1335	54,9	x5	MR1-100
13-02-2021 10:22:59	5,54	13,66	1334	11	0	992	25,0	50,0	339,7	1326	54,7	x5	MR1-100
13-02-2021 10:23:00	5,54	13,76	1324	11	0	992	25,0	50,0	334,8	1317	54,3	x5	MR1-100
13-02-2021 10:23:01	5,34	13,72	1320	11	0	992	25,0	50,0	334,8	1312	54,4	x5	MR1-100
13-02-2021 10:23:02	5,34	13,66	1325	11	0	992	25,0	50,0	336,1	1317	54,4	x5	MR1-100
13-02-2021 10:23:03	5,34	13,64	1328	10	0	992	25,0	50,0	336,1	1320	54,5	x5	MR1-100
13-02-2021 10:23:04	5,34	13,71	1324	10	0	992	25,0	50,0	340,8	1317	54,3	x5	MR1-100
13-02-2021 10:23:05	5,34	13,78	1320	10	0	992	25,0	50,0	340,8	1313	54,2	x5	MR1-100
13-02-2021 10:23:06	5,34	13,78	1317	10	0	992	25,0	50,0	344,2	1310	54,2	x5	MR1-100
13-02-2021 10:23:07	5,38	13,71	1316	10	0	992	25,0	50,0	342,1	1309	54,2	x5	MR1-100
13-02-2021 10:23:08	5,38	13,62	1324	10	0	992	25,0	50,0	342,1	1316	54,3	x5	MR1-100



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13-02-2021 10:23:09	5,38	13,55	1332	10	0	992	25,0	50,0	341,2	1324	54,4	x5	MR1-100
13-02-2021 10:23:10	5,38	13,55	1338	10	0	992	25,0	50,0	336,7	1330	54,4	x5	MR1-100
13-02-2021 10:35:36	5,41	13,88	1243	10	137	992	25,0	50,0	330,4	1238	49,5	x5	MR1-100
13-02-2021 10:35:37	5,41	13,81	1267	10	133	992	25,0	50,0	325,0	1261	51,3	x5	MR1-100
13-02-2021 10:35:38	5,41	13,81	1267	10	133	992	25,0	50,0	325,0	1261	51,3	x5	MR1-100
13-02-2021 10:35:39	5,41	13,76	1272	10	129	992	25,0	50,0	328,7	1265	52,8	x5	MR1-100
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13-02-2021 10:35:43	5,42	14,02	1262	11	101	992	25,0	50,0	341,3	1252	55,4	x5	MR1-100
13-02-2021 10:35:44	5,42	13,94	1260	11	96	992	25,0	50,0	341,3	1250	55,9	x5	MR1-100
13-02-2021 10:35:45	5,42	13,79	1268	11	92	992	25,0	50,0	341,4	1257	56,5	x5	MR1-100
13-02-2021 10:35:46	5,50	13,63	1288	11	89	992	25,0	50,0	342,9	1276	57,2	x5	MR1-100
13-02-2021 10:35:47	5,50	13,53	1308	11	86	992	25,0	50,0	342,9	1296	57,7	x5	MR1-100
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13-02-2021 10:35:49	5,50	13,42	1318	12	86	992	25,0	50,0	341,0	1305	58,3	x5	MR1-100
13-02-2021 10:35:50	5,50	13,43	1323	12	83	992	25,0	50,0	342,0	1310	58,8	x5	MR1-100
13-02-2021 10:35:51	5,50	13,45	1322	12	83	992	25,0	50,0	339,5	1309	58,9	x5	MR1-100
13-02-2021 10:35:52	5,60	13,45	1322	12	83	992	25,0	50,0	339,5	1309	58,9	x5	MR1-100
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13-02-2021 10:35:55	5,60	13,51	1322	13	77	992	25,0	50,0	334,1	1309	59,1	x5	MR1-100
13-02-2021 10:35:56	5,60	13,51	1322	13	77	992	25,0	50,0	334,1	1309	59,1	x5	MR1-100
13-02-2021 10:35:57	5,60	13,54	1318	13	73	992	25,0	50,0	336,7	1305	59,1	x5	MR1-100
13-02-2021 10:35:58	5,39	13,62	1308	13	73	992	25,0	50,0	336,7	1295	58,8	x5	MR1-100
13-02-2021 10:35:59	5,39	13,70	1299	13	71	992	25,0	50,0	334,7	1286	58,6	x5	MR1-100
13-02-2021 10:36:00	5,39	13,72	1296	12	68	992	25,0	50,0	334,7	1284	58,4	x5	MR1-100
13-02-2021 10:36:01	5,39	13,71	1299	12	65	992	25,0	50,0	336,7	1287	58,3	x5	MR1-100
13-02-2021 10:36:02	5,39	13,71	1301	12	62	992	25,0	50,0	340,4	1289	58,1	x5	MR1-100
13-02-2021 10:36:03	5,39	13,74	1301	11	62	992	25,0	50,0	340,4	1289	57,9	x5	MR1-100
13-02-2021 10:36:04	5,35	13,73	1298	11	61	992	25,0	50,0	341,5	1287	57,6	x5	MR1-100
13-02-2021 10:36:05	5,35	13,63	1305	11	56	992	25,0	50,0	344,2	1294	57,3	x5	MR1-100
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13-02-2021 10:36:17	5,56	13,47	1337	12	44	992	25,0	50,0	336,3	1327	57,1	x5	MR1-100
13-02-2021 10:36:18	5,56	13,60	1326	13	44	992	25,0	50,0	339,4	1316	56,8	x5	MR1-100
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13-02-2021 10:36:24	5,44	13,62	1317	12	31	992	25,0	50,0	336,1	1307	56,0	x5	MR1-100
13-02-2021 10:36:25	5,44	13,62	1324	11	31	992	25,0	50,0	333,9	1315	56,0	x5	MR1-100
13-02-2021 10:36:26	5,43	13,64	1320	11	30	992	25,0	50,0	333,9	1314	55,9	x5	MR1-100
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13-02-2021 10:36:28	5,30	13,79	1287	11	27	992	25,0	50,0	337,6	1278	54,8	x5	MR1-100
13-02-2021 10:36:29	5,30	13,79	1287	11	27	992	25,0	50,0	337,6	1278	54,8	x5	MR1-100
13-02-2021 10:36:30	5,30	13,89	1282	11	21	992	25,0	50,0	337,7	1273	54,6	x5	MR1-100
13-02-2021 10:36:31	5,30	13,91	1280	11	21	992	25,0	50,0	346,7	1272	54,5	x5	MR1-100
13-02-2021 10:36:32	5,30	13,75	1291	11	20	992	25,0	50,0	346,7	1282	54,5	x5	MR1-100
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13-02-2021 10:36:34	5,30	13,74	1301	11	20	992	25,0	50,0	350,3	1293	54,6	x5	MR1-100
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13-02-2021 10:36:37	5,42	13,33	1351	11	20	992	25,0	50,0	347,6	1342	55,7	x5	MR1-100
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13-02-2021 10:36:47	5,29	13,74	1298	12	7	992	25,0	50,0	343,2	1290	54,5	x5	MR1-100
13-02-2021 10:36:48	5,29	13,74	1298	12	7	992	25,0	50,0	343,2	1290	54,5	x5	MR1-100
13-02-2021 10:36:49	5,29	13,68	1308	11	8	992	25,0	50,0	338,0	1300	54,6	x5	MR1-100
13-02-2021 10:36:50	5,29	13,61	1319	11	8	992	25,0	50,0	338,0	1311	54,7	x5	MR1-100
13-02-2021 10:36:51	5,29	13,55	1335	11	8	992	25,0	50,0	340,4	1327	54,9	x5	MR1-100
13-02-2021 10:36:52	5,29	13,60	1331	11	10	992	25,0	50,0	342,5	1323	54,8	x5	MR1-100
13-02-2021 10:36:53	5,44	13,67	1328	11	9	992	25,0	50,0	342,5	1320	54,9	x5	MR1-100
13-02-2021 10:36:54	5,44	13,67	1328	11	9	992	25,0	50,0	342,5	1320	54,9	x5	MR1-100
13-02-2021 10:36:55	5,44	13,66	1332	11	9	992	25,0	50,0	341,5	1324	54,9	x5	MR1-100
13-02-2021 10:36:56	5,43	13,61	1333	11	9	992	25,0	50,0	342,4	1325	55,0	x5	MR1-100
13-02-2021 10:36:57	5,43	13,57	1333	11	8	992	25,0	50,0	342,4	1325	54,9	x5	MR1-100
13-02-2021 10:36:58	5,43	13,57	1333	11	7	992	25,0	50,0	341,7	1325	54,9	x5	MR1-100
13-02-2021 10:36:59	5,43	13,56	1333	11	7	992	25,0	50,0	341,7	1325	55,0	x5	MR1-100
13-02-2021 10:37:00	5,50	13,56	1337	11	6	992	25,0	50,0	343,9	1329	55,1	x5	MR1-100
13-02-2021 10:37:01	5,50	13,56	1341	12	6	992	25,0	50,0	338,2	1333	55,1	x5	MR1-100
13-02-2021 10:37:02	5,50	13,56	1339	11	5	992	25,0	50,0	338,2	1331	55,1	x5	MR1-100
13-02-2021 10:37:03	5,50	13,50	1338	12	4	992	25,0	50,0	334,4	1330	55,1	x5	MR1-100
13-02-2021 10:37:04	5,50	13,57	1336	12	4	992	25,0	50,0	334,4	1328	55,0	x5	MR1-100
13-02-2021 10:37:05	5,46	13,71	1327	11	4	992	25,0	50,0	335,4	1319	54,8	x5	MR1-100
13-02-2021 10:37:06	5,46	13,71	1326	11	3	992	25,0	50,0	335,4	1319	54,5	x5	MR1-100
13-02-2021 10:37:07	5,46	13,80	1315	12	1	992	25,0	50,0	334,3	1308	54,4	x5	MR1-100
13-02-2021 10:37:08	5,46	13,79	1307	11	0	992	25,0	50,0	341,7	1299	54,3	x5	MR1-100
13-02-2021 10:37:09	5,46	13,79	1305	11	0	992	25,0	50,0	341,7	1297	54,2	x5	MR1-100
13-02-2021 10:37:10	5,46	13,82	1303	11	0	992	25,0	50,0	347,3	1296	54,1	x5	MR1-100
13-02-2021 10:37:11	5,30	13,85	1302	11	0	992	25,0	50,0	347,3	1295	54,0	x5	MR1-100
13-02-2021 10:37:12	5,30	13,76	1307	11	0	992	25,0	50,0	344,3	1299	54,1	x5	MR1-100
13-02-2021 10:37:13	5,30	13,60	1320	11	0	992	25,0	50,0	344,3	1312	54,3	x5	MR1-100
13-02-2021 10:37:14	5,30	13,46	1333	11	0	992	25,0	50,0	343,3	1325	54,4	x5	MR1-100
13-02-2021 10:37:15	5,30	13,44	1338	11	0	992	25,0	50,0	339,4	1330	54,4	x5	MR1-100
13-02-2021 10:37:16	5,30	13,45	1343	12	0	992	25,0	50,0	339,4	1335	54,5	x5	MR1-100
13-02-2021 10:37:17	5,30	13,46	1346	12	0	992	25,0	50,0	338,7	1338	54,5	x5	MR1-100
13-02-2021 10:37:18	5,57	13,51	1347	12	0	992	25,0	50,0	338,7	1340	54,5	x5	MR1-100
13-02-2021 10:37:19	5,57	13,57	1343	12	0	992	25,0	50,0	339,3	1328	54,5	x5	MR1-100
13-02-2021 10:37:20	5,57	13,61	1335	12	0	992	25,0	50,0	339,3	1328	54,5	x5	MR1-100
13-02-2021 10:37:21	5,57	13,63	1326	12	0	992	25,0	50,0	341,2	1318	54,3	x5	MR1-100



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13-02-2021 10:37:22	5,57	13,65	1318	11	0	992	25,0	50,0	340,8	1310	54,1	x5	MR1-100
13-02-2021 10:37:23	5,57	13,63	1318	12	0	992	25,0	50,0	340,8	1310	54,1	x5	MR1-100
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13-02-2021 10:37:25	5,45	13,63	1331	11	0	992	25,0	50,0	336,9	1324	54,1	x5	MR1-100
13-02-2021 10:37:26	5,45	13,62	1330	11	0	992	25,0	50,0	333,8	1323	54,1	x5	MR1-100
13-02-2021 10:37:27	5,45	13,62	1328	11	0	992	25,0	50,0	337,6	1321	54,1	x5	MR1-100
13-02-2021 10:37:28	5,45	13,68	1319	11	0	992	25,0	50,0	337,6	1312	53,9	x5	MR1-100
13-02-2021 10:37:29	5,45	13,78	1307	11	0	992	25,0	50,0	339,7	1300	53,6	x5	MR1-100
13-02-2021 10:37:30	5,23	13,83	1295	11	0	992	25,0	50,0	339,7	1288	53,5	x5	MR1-100
13-02-2021 10:37:31	5,23	13,84	1297	11	0	992	25,0	50,0	342,0	1290	53,5	x5	MR1-100
13-02-2021 10:37:32	5,23	13,80	1303	10	0	992	25,0	50,0	342,0	1296	53,5	x5	MR1-100
13-02-2021 10:37:33	5,23	13,77	1310	10	0	992	25,0	50,0	343,0	1303	53,6	x5	MR1-100
13-02-2021 10:37:34	5,23	13,72	1315	10	0	992	25,0	50,0	343,0	1308	53,6	x5	MR1-100
13-02-2021 10:37:35	5,23	13,66	1321	11	0	992	25,0	50,0	342,3	1314	53,8	x5	MR1-100
13-02-2021 10:37:36	5,47	13,62	1329	10	0	992	25,0	50,0	343,4	1322	53,8	x5	MR1-100
13-02-2021 10:37:37	5,47	13,62	1338	10	0	992	25,0	50,0	343,4	1331	53,9	x5	MR1-100
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13-02-2021 10:37:39	5,47	13,59	1338	11	0	992	25,0	50,0	345,0	1331	54,1	x5	MR1-100
13-02-2021 10:37:40	5,47	13,55	1336	10	0	992	25,0	50,0	347,6	1329	54,1	x5	MR1-100
13-02-2021 10:37:41	5,47	13,53	1335	11	0	992	25,0	50,0	347,6	1328	54,0	x5	MR1-100
13-02-2021 10:37:42	5,54	13,53	1339	11	0	992	25,0	50,0	347,3	1332	54,1	x5	MR1-100
13-02-2021 10:37:43	5,54	13,50	1346	11	0	992	25,0	50,0	341,4	1339	54,3	x5	MR1-100
13-02-2021 10:37:44	5,54	13,46	1356	11	0	992	25,0	50,0	341,4	1349	54,4	x5	MR1-100
13-02-2021 10:37:45	5,54	13,44	1362	11	0	992	25,0	50,0	342,5	1355	54,5	x5	MR1-100
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13-02-2021 10:37:53	5,48	13,78	1330	11	0	992	25,0	50,0	340,9	1324	53,8	x5	MR1-100
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13-02-2021 10:37:59	5,35	13,56	1340	11	0	992	25,0	50,0	342,2	1333	53,8	x5	MR1-100
13-02-2021 10:38:00	5,62	13,44	1341	11	0	992	25,0	50,0	342,2	1334	53,9	x5	MR1-100
13-02-2021 10:38:01	5,62	13,42	1349	11	0	992	25,0	50,0	339,2	1342	53,9	x5	MR1-100
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13-02-2021 10:38:03	5,62	13,55	1344	11	0	992	25,0	50,0	340,0	1337	53,7	x5	MR1-100
13-02-2021 10:38:04	5,62	13,64	1334	11	0	992	25,0	50,0	343,1	1328	53,6	x5	MR1-100
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13-02-2021 10:38:06	5,62	13,73	1324	11	0	992	25,0	50,0	342,1	1318	53,5	x5	MR1-100
13-02-2021 10:38:07	5,38	13,68	1324	11	0	992	25,0	50,0	342,1	1318	53,4	x5	MR1-100
13-02-2021 10:38:08	5,38	13,63	1328	11	0	992	25,0	50,0	338,4	1321	53,5	x5	MR1-100
13-02-2021 10:38:09	5,38	13,61	1331	11	0	992	25,0	50,0	340,3	1325	53,4	x5	MR1-100
13-02-2021 10:38:10	5,38	13,64	1329	11	0	992	25,0	50,0	340,3	1322	53,4	x5	MR1-100
13-02-2021 10:38:11	5,38	13,71	1323	11	0	992	25,0	50,0	343,1	1317	53,1	x5	MR1-100
13-02-2021 10:38:12	5,38	13,72	1314	11	0	992	25,0	50,0	343,1	1308	53,0	x5	MR1-100
13-02-2021 10:38:13	5,36	13,73	1315	11	0	992	25,0	50,0	343,3	1309	53,0	x5	MR1-100
13-02-2021 10:38:14	5,36	13,70	1321	11	0	992	25,0	50,0	343,3	1315	53,1	x5	MR1-100
13-02-2021 10:38:15	5,36	13,67	1330	10	0	992	25,0	50,0	341,7	1324	53,2	x5	MR1-100


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13-02-2021 10:38:16	5,36	13,65	1337	10	0	992	25,0	50,0	341,7	1331	53,3	x5	MR1-100
13-02-2021 10:38:17	5,36	13,67	1341	10	0	992	25,0	50,0	342,6	1335	53,3	x5	MR1-100
13-02-2021 10:38:18	5,36	13,69	1335	10	0	992	25,0	50,0	346,9	1329	53,1	x5	MR1-100
13-02-2021 10:38:19	5,42	13,69	1327	11	0	992	25,0	50,0	346,9	1321	53,0	x5	MR1-100
13-02-2021 10:38:20	5,42	13,67	1324	11	0	992	25,0	50,0	347,7	1318	53,0	x5	MR1-100
13-02-2021 10:38:21	5,42	13,60	1327	10	0	992	25,0	50,0	347,7	1321	53,2	x5	MR1-100
13-02-2021 10:38:22	5,42	13,53	1337	10	0	992	25,0	50,0	343,8	1330	53,4	x5	MR1-100
13-02-2021 10:38:23	5,42	13,48	1345	11	0	992	25,0	50,0	341,2	1338	53,5	x5	MR1-100
13-02-2021 10:38:24	5,42	13,47	1352	10	0	992	25,0	50,0	341,2	1346	53,5	x5	MR1-100
13-02-2021 10:38:25	5,56	13,53	1354	11	0	992	25,0	50,0	341,2	1348	53,3	x5	MR1-100
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13-02-2021 10:39:00	5,42	13,27	1368	11	0	992	25,0	50,0	344,2	1362	53,2	x5	MR1-100
13-02-2021 10:39:01	5,42	13,45	1364	11	0	992	25,0	50,0	344,2	1362	53,2	x5	MR1-100
13-02-2021 10:39:02	5,58	13,49	1359	11	0	992	25,0	50,0	344,2	1358	53,3	x5	MR1-100
13-02-2021 10:39:02	5,58	13,49	1359	11	0	992	25,0	50,0	343,0	1353	53,3	x5	MR1-100
13-02-2021 10:39:03	5,58	13,47	1352	11	0	992	25,0	50,0	343,0	1346	53,4	x5	MR1-100
13-02-2021 10:39:04	5,58	13,50	1348	11	0	992	25,0	50,0	343,0	1346	53,4	x5	MR1-100
13-02-2021 10:39:04	5,58	13,50	1348	11	0	992	25,0	50,0	347,4	1342	53,4	x5	MR1-100
13-02-2021 10:39:05	5,57	13,53	1347	11	0	992	25,0	50,0	347,4	1342	53,4	x5	MR1-100
13-02-2021 10:39:05	5,57	13,53	1347	11	0	992	25,0	50,0	341,5	1341	53,5	x5	MR1-100
13-02-2021 10:39:06	5,57	13,53	1352	11	0	992	25,0	50,0	341,5	1341	53,5	x5	MR1-100
13-02-2021 10:39:07	5,57	13,50	1362	11	0	992	25,0	50,0	341,5	1346	53,5	x5	MR1-100
13-02-2021 10:39:07	5,57	13,50	1362	11	0	992	25,0	50,0	339,8	1356	53,5	x5	MR1-100
13-02-2021 10:39:08	5,64	13,49	1366	11	0	992	25,0	50,0	339,8	1360	53,7	x5	MR1-100
13-02-2021 10:39:09	5,64	13,55	1359	11	0	992	25,0	50,0	339,8	1353	53,5	x5	MR1-100


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13-02-2021 10:39:10	5,64	13,62	1345	11	0	992	25,0	50,0	337,8	1339	53,4	x5	MR1-100
13-02-2021 10:39:11	5,64	13,65	1335	11	0	992	25,0	50,0	337,8	1329	53,3	x5	MR1-100
13-02-2021 10:39:12	5,64	13,65	1331	11	0	992	25,0	50,0	338,6	1325	53,2	x5	MR1-100
13-02-2021 10:39:13	5,64	13,65	1331	11	0	992	25,0	50,0	338,6	1325	53,2	x5	MR1-100
13-02-2021 10:39:14	5,36	13,71	1326	11	0	992	25,0	50,0	337,2	1320	53,1	x5	MR1-100
13-02-2021 10:39:15	5,36	13,73	1324	10	0	992	25,0	50,0	337,2	1318	53,1	x5	MR1-100
13-02-2021 10:39:16	5,36	13,75	1324	10	0	992	25,0	50,0	343,5	1318	52,9	x5	MR1-100
13-02-2021 10:39:17	5,35	13,79	1321	10	0	992	25,0	50,0	344,4	1315	52,7	x5	MR1-100
13-02-2021 10:39:18	5,35	13,82	1318	10	0	992	25,0	50,0	344,4	1313	52,6	x5	MR1-100
13-02-2021 10:39:19	5,35	13,77	1321	10	0	992	25,0	50,0	349,3	1315	52,6	x5	MR1-100
13-02-2021 10:39:20	5,48	13,66	1327	10	0	992	25,0	50,0	349,3	1321	52,7	x5	MR1-100
13-02-2021 10:39:21	5,48	13,57	1333	10	0	992	25,0	50,0	346,8	1327	52,9	x5	MR1-100
13-02-2021 10:39:22	5,48	13,47	1347	10	0	992	25,0	50,0	346,8	1341	53,1	x5	MR1-100
13-02-2021 10:39:23	5,48	13,40	1361	10	0	992	25,0	50,0	345,0	1355	53,3	x5	MR1-100
13-02-2021 10:39:24	5,48	13,39	1365	10	0	992	25,0	50,0	345,0	1359	53,3	x5	MR1-100
13-02-2021 10:39:25	5,48	13,40	1363	10	0	992	25,0	50,0	341,0	1357	53,4	x5	MR1-100
13-02-2021 10:39:26	5,48	13,40	1359	11	0	992	25,0	50,0	339,1	1353	53,4	x5	MR1-100
13-02-2021 10:39:27	5,60	13,49	1352	11	0	992	25,0	50,0	339,1	1346	53,3	x5	MR1-100
13-02-2021 10:39:28	5,60	13,59	1348	11	0	992	25,0	50,0	340,4	1342	53,2	x5	MR1-100
13-02-2021 10:39:29	5,60	13,66	1345	11	0	992	25,0	50,0	340,4	1339	53,1	x5	MR1-100
13-02-2021 10:39:30	5,60	13,69	1338	11	0	992	25,0	50,0	339,9	1332	53,0	x5	MR1-100
13-02-2021 10:39:31	5,60	13,69	1331	10	0	992	25,0	50,0	340,8	1325	52,9	x5	MR1-100
13-02-2021 10:39:32	5,60	13,66	1326	10	0	992	25,0	50,0	340,8	1320	52,9	x5	MR1-100
13-02-2021 10:39:33	5,43	13,65	1326	10	0	992	25,0	50,0	339,9	1320	52,8	x5	MR1-100
13-02-2021 10:39:34	5,43	13,67	1328	10	0	992	25,0	50,0	339,9	1322	52,7	x5	MR1-100
13-02-2021 10:39:35	5,44	13,66	1327	10	0	992	25,0	50,0	338,3	1321	52,7	x5	MR1-100
13-02-2021 10:39:36	5,44	13,65	1324	10	0	992	25,0	50,0	338,3	1318	52,7	x5	MR1-100
13-02-2021 10:39:37	5,44	13,67	1323	10	0	992	25,0	50,0	344,5	1317	52,7	x5	MR1-100
13-02-2021 10:39:38	5,34	13,72	1324	10	0	992	25,0	50,0	343,0	1318	52,6	x5	MR1-100
13-02-2021 10:39:39	5,34	13,71	1325	9	0	992	25,0	50,0	343,0	1319	52,6	x5	MR1-100
13-02-2021 10:39:40	5,34	13,62	1331	10	0	992	25,0	50,0	347,0	1325	52,7	x5	MR1-100
13-02-2021 10:39:41	5,34	13,59	1341	10	0	992	25,0	50,0	347,0	1335	52,7	x5	MR1-100
13-02-2021 10:39:42	5,34	13,60	1346	10	0	992	25,0	50,0	345,1	1341	52,7	x5	MR1-100
13-02-2021 10:39:43	5,34	13,55	1351	10	0	992	25,0	50,0	347,4	1345	53,1	x5	MR1-100
13-02-2021 10:39:44	5,60	13,44	1352	10	0	992	25,0	50,0	347,4	1346	53,2	x5	MR1-100
13-02-2021 10:39:45	5,60	13,39	1353	10	0	992	25,0	50,0	344,9	1347	53,2	x5	MR1-100
13-02-2021 10:39:46	5,60	13,41	1355	10	0	992	25,0	50,0	344,9	1349	53,2	x5	MR1-100
13-02-2021 10:39:47	5,60	13,42	1356	10	0	992	25,0	50,0	341,8	1350	53,2	x5	MR1-100
13-02-2021 10:39:48	5,60	13,40	1355	10	0	992	25,0	50,0	341,8	1349	53,2	x5	MR1-100
13-02-2021 10:39:49	5,60	13,40	1357	11	0	992	25,0	50,0	342,8	1351	53,2	x5	MR1-100
13-02-2021 10:39:50	5,52	13,52	1352	11	0	992	25,0	50,0	342,8	1346	53,1	x5	MR1-100
13-02-2021 10:39:51	5,52	13,56	1349	11	0	992	25,0	50,0	338,2	1343	53,1	x5	MR1-100
13-02-2021 10:39:52	5,52	13,54	1351	11	0	992	25,0	50,0	339,3	1345	53,2	x5	MR1-100
13-02-2021 10:39:53	5,52	13,54	1350	11	0	992	25,0	50,0	339,3	1344	53,3	x5	MR1-100
13-02-2021 10:39:54	5,52	13,59	1346	11	0	992	25,0	50,0	335,9	1340	53,2	x5	MR1-100
13-02-2021 10:39:55	5,52	13,59	1341	10	0	992	25,0	50,0	335,9	1335	53,2	x5	MR1-100
13-02-2021 10:39:56	5,52	13,66	1333	10	0	992	25,0	50,0	336,9	1327	53,1	x5	MR1-100
13-02-2021 10:39:57	5,39	13,71	1325	10	0	992	25,0	50,0	336,9	1319	52,9	x5	MR1-100
13-02-2021 10:39:58	5,39	13,77	1316	10	0	992	25,0	50,0	343,5	1310	52,6	x5	MR1-100
13-02-2021 10:39:59	5,39	13,79	1314	10	0	992	25,0	50,0	347,5	1308	52,7	x5	MR1-100
13-02-2021 10:40:00	5,39	13,79	1321	10	0	992	25,0	50,0	347,5	1315	52,7	x5	MR1-100
13-02-2021 10:40:01	5,39	13,65	1332	10	0	992	25,0	50,0	345,0	1326	52,8	x5	MR1-100
13-02-2021 10:40:02	5,39	13,53	1342	10	0	992	25,0	50,0	345,0	1336	52,9	x5	MR1-100
13-02-2021 10:40:03	5,61	13,41	1348	10	0	992	25,0	50,0	341,3	1342	53,1	x5	MR1-100


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13-02-2021 10:40:04	5,61	13,38	1355	10	0	992	25,0	50,0	341,3	1349	53,1	x5	MR1-100
13-02-2021 10:40:05	5,61	13,44	1355	10	0	992	25,0	50,0	342,8	1349	53,1	x5	MR1-100
13-02-2021 10:40:06	5,61	13,51	1349	10	0	992	25,0	50,0	341,6	1343	53,1	x5	MR1-100
13-02-2021 10:40:07	5,61	13,53	1343	10	0	992	25,0	50,0	341,6	1337	53,0	x5	MR1-100
13-02-2021 10:40:08	5,61	13,53	1343	10	0	992	25,0	50,0	342,0	1337	53,1	x5	MR1-100
13-02-2021 10:40:09	5,50	13,53	1342	11	0	992	25,0	50,0	342,0	1336	53,1	x5	MR1-100
13-02-2021 10:40:10	5,50	13,55	1342	10	0	992	25,0	50,0	337,5	1336	53,1	x5	MR1-100
<b>Average at 75%</b>	<b>5,39</b>	<b>13,50</b>	<b>1307,56</b>	<b>11,10</b>	<b>13,55</b>	<b>979,89</b>	<b>24,69</b>	<b>49,39</b>	<b>336,31</b>	<b>1299,63</b>	<b>54,21</b>		

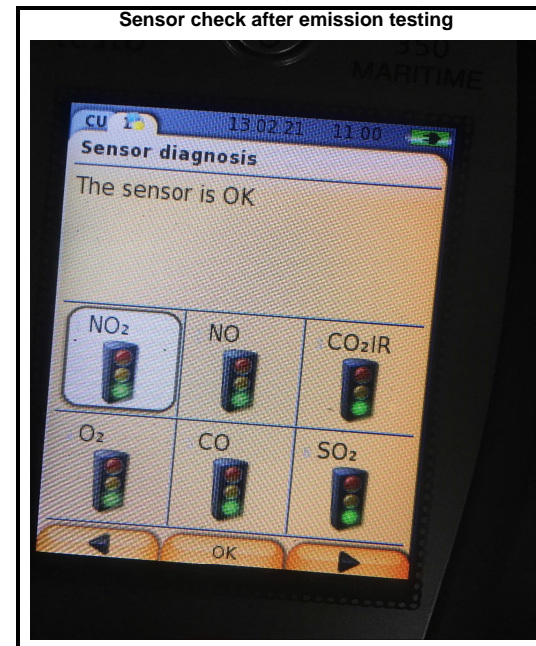
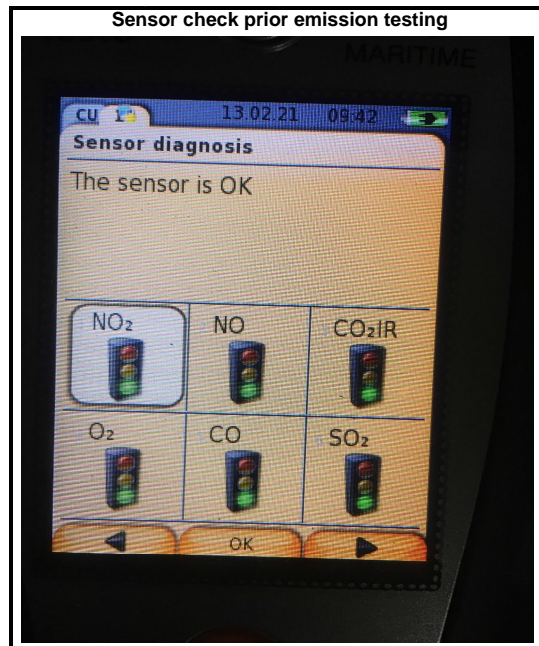
13.02.2021

Load – 75%

Fuel Cntr. 09:53 - 1263150 Cntr. 10:54 - 1264540

Humidity – 19.6

Temperature in E.R. – 19.6°C




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TESTO data @ 85% MR1-100


Report number: END-2021-001  
 Report date: 13-02-2021

For additional data see below (FO flow meter readings & Sensor diagnosis)

Date / time	% CO2IR	% O2	ppm NOx	ppm CO	ppm SO2	mbar Pabs	°C Tmp/a	% Amb H	°C FT	ppm NO	ppm NO2	Dilution factor	Fuel
13-02-2021 13:07:10	5,31	13,92	1241	7	128	992	25,0	50,0	315,1	1242	43,4	x5	MR1-100
13-02-2021 13:07:11	5,31	13,92	1244	8	128	992	25,0	50,0	315,1	1242	46,8	x5	MR1-100
13-02-2021 13:07:12	5,30	13,81	1261	10	136	992	25,0	50,0	318,4	1257	49,4	x5	MR1-100
13-02-2021 13:07:13	5,30	13,83	1267	10	134	992	25,0	50,0	318,4	1261	51,5	x5	MR1-100
13-02-2021 13:07:14	5,36	13,84	1267	11	125	992	25,0	50,0	318,5	1259	53,3	x5	MR1-100
13-02-2021 13:07:15	5,36	13,79	1274	11	118	992	25,0	50,0	320,4	1263	56,1	x5	MR1-100
13-02-2021 13:07:16	5,36	13,75	1274	11	118	992	25,0	50,0	320,4	1263	56,1	x5	MR1-100
13-02-2021 13:07:17	5,36	13,75	1279	11	106	992	25,0	50,0	317,5	1267	57,1	x5	MR1-100
13-02-2021 13:07:18	5,36	13,76	1281	11	100	992	25,0	50,0	317,5	1269	57,9	x5	MR1-100
13-02-2021 13:07:19	5,36	13,73	1287	11	94	992	25,0	50,0	315,7	1274	58,7	x5	MR1-100
13-02-2021 13:07:20	5,45	13,72	1288	11	91	992	25,0	50,0	315,7	1274	59,9	x5	MR1-100
13-02-2021 13:07:21	5,45	13,75	1288	12	91	992	25,0	50,0	319,1	1274	59,9	x5	MR1-100
13-02-2021 13:07:22	5,45	13,80	1284	11	85	992	25,0	50,0	319,1	1270	60,2	x5	MR1-100
13-02-2021 13:07:23	5,45	13,80	1279	11	85	992	25,0	50,0	321,7	1264	60,5	x5	MR1-100
13-02-2021 13:07:24	5,45	13,84	1274	11	82	992	25,0	50,0	323,5	1259	60,6	x5	MR1-100
13-02-2021 13:07:25	5,45	13,79	1272	11	80	992	25,0	50,0	323,5	1257	60,9	x5	MR1-100
13-02-2021 13:07:26	5,45	13,74	1277	11	75	992	25,0	50,0	324,8	1261	61,2	x5	MR1-100
13-02-2021 13:07:27	5,42	13,70	1293	11	75	992	25,0	50,0	324,8	1277	61,5	x5	MR1-100
13-02-2021 13:07:28	5,42	13,67	1299	11	74	992	25,0	50,0	324,2	1283	62,1	x5	MR1-100
13-02-2021 13:07:29	5,42	13,64	1299	11	74	992	25,0	50,0	324,1	1283	62,1	x5	MR1-100
13-02-2021 13:07:30	5,42	13,62	1302	12	73	992	25,0	50,0	324,1	1286	62,3	x5	MR1-100
13-02-2021 13:07:31	5,42	13,62	1304	11	72	992	25,0	50,0	324,1	1288	62,4	x5	MR1-100
13-02-2021 13:07:32	5,42	13,64	1303	11	71	992	25,0	50,0	324,1	1287	62,4	x5	MR1-100
13-02-2021 13:07:33	5,43	13,67	1305	11	69	992	25,0	50,0	327,1	1289	62,2	x5	MR1-100
13-02-2021 13:07:34	5,43	13,69	1302	12	68	992	25,0	50,0	327,1	1286	62,1	x5	MR1-100
13-02-2021 13:07:35	5,43	13,69	1298	11	65	992	25,0	50,0	329,4	1282	61,9	x5	MR1-100
13-02-2021 13:07:36	5,43	13,67	1297	11	63	992	25,0	50,0	326,2	1281	61,9	x5	MR1-100
13-02-2021 13:07:37	5,43	13,59	1299	11	62	992	25,0	50,0	326,2	1283	61,9	x5	MR1-100
13-02-2021 13:07:38	5,43	13,53	1303	11	59	992	25,0	50,0	322,9	1287	61,8	x5	MR1-100
13-02-2021 13:07:39	5,56	13,56	1303	12	58	992	25,0	50,0	322,9	1287	61,6	x5	MR1-100
13-02-2021 13:07:40	5,56	13,56	1303	12	58	992	25,0	50,0	322,3	1287	61,6	x5	MR1-100
13-02-2021 13:07:41	5,56	13,61	1300	12	56	992	25,0	50,0	322,3	1284	61,4	x5	MR1-100
13-02-2021 13:07:42	5,56	13,68	1293	11	55	992	25,0	50,0	320,2	1278	61,1	x5	MR1-100
13-02-2021 13:07:43	5,56	13,78	1287	11	51	992	25,0	50,0	320,8	1272	61,0	x5	MR1-100
13-02-2021 13:07:44	5,56	13,80	1284	11	50	992	25,0	50,0	320,8	1269	61,1	x5	MR1-100
13-02-2021 13:07:45	5,31	13,84	1283	11	48	992	25,0	50,0	325,2	1268	61,1	x5	MR1-100
13-02-2021 13:07:46	5,31	13,86	1280	11	46	992	25,0	50,0	325,2	1265	60,9	x5	MR1-100
13-02-2021 13:07:47	5,31	13,87	1280	11	46	992	25,0	50,0	328,0	1265	60,9	x5	MR1-100
13-02-2021 13:07:48	5,30	13,85	1282	10	44	992	25,0	50,0	328,0	1267	60,8	x5	MR1-100
13-02-2021 13:07:49	5,30	13,80	1284	10	42	992	25,0	50,0	328,6	1269	60,8	x5	MR1-100
13-02-2021 13:07:50	5,30	13,73	1294	10	42	992	25,0	50,0	328,8	1279	60,8	x5	MR1-100
13-02-2021 13:07:51	5,43	13,73	1294	11	42	992	25,0	50,0	328,8	1279	60,9	x5	MR1-100
13-02-2021 13:07:52	5,43	13,64	1302	11	40	992	25,0	50,0	328,4	1287	61,0	x5	MR1-100
13-02-2021 13:07:53	5,43	13,63	1307	11	40	992	25,0	50,0	328,4	1292	61,1	x5	MR1-100
13-02-2021 13:07:54	5,43	13,61	1309	11	39	992	25,0	50,0	329,0	1294	61,1	x5	MR1-100
13-02-2021 13:07:55	5,43	13,60	1309	11	37	992	25,0	50,0	329,0	1294	61,2	x5	MR1-100



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13-02-2021 13:07:56	5,43	13,61	1309	11	37	992	25,0	50,0	331,9	1294	61,3	x5	MR1-100
13-02-2021 13:07:57	5,43	13,62	1310	11	35	992	25,0	50,0	329,9	1295	61,5	x5	MR1-100
13-02-2021 13:07:58	5,43	13,59	1314	11	34	992	25,0	50,0	329,9	1299	61,6	x5	MR1-100
13-02-2021 13:07:59	5,43	13,54	1321	11	33	992	25,0	50,0	329,9	1306	61,6	x5	MR1-100
13-02-2021 13:08:00	5,43	13,54	1321	11	33	992	25,0	50,0	329,9	1306	61,7	x5	MR1-100
13-02-2021 13:08:01	5,43	13,55	1328	12	33	992	25,0	50,0	327,5	1313	61,7	x5	MR1-100
13-02-2021 13:08:02	5,43	13,56	1328	12	31	992	25,0	50,0	327,5	1313	61,9	x5	MR1-100
13-02-2021 13:08:03	5,52	13,56	1332	12	30	992	25,0	50,0	324,9	1317	62,1	x5	MR1-100
13-02-2021 13:08:04	5,52	13,58	1328	12	29	992	25,0	50,0	324,9	1313	62,1	x5	MR1-100
13-02-2021 13:08:05	5,52	13,58	1328	12	29	992	25,0	50,0	324,9	1313	62,1	x5	MR1-100
13-02-2021 13:08:06	5,52	13,65	1319	12	25	992	25,0	50,0	323,6	1304	61,9	x5	MR1-100
13-02-2021 13:08:07	5,52	13,71	1311	11	23	992	25,0	50,0	323,6	1296	61,8	x5	MR1-100
13-02-2021 13:08:08	5,52	13,75	1302	11	22	992	25,0	50,0	325,6	1287	61,6	x5	MR1-100
13-02-2021 13:08:09	5,34	13,77	1298	11	20	992	25,0	50,0	325,9	1283	61,4	x5	MR1-100
13-02-2021 13:08:10	5,34	13,80	1298	11	19	992	25,0	50,0	325,9	1283	61,3	x5	MR1-100
13-02-2021 13:08:11	5,34	13,79	1296	11	18	992	25,0	50,0	324,6	1281	61,3	x5	MR1-100
13-02-2021 13:08:12	5,34	13,75	1300	11	16	992	25,0	50,0	324,6	1285	61,3	x5	MR1-100
13-02-2021 13:08:13	5,34	13,75	1300	11	16	992	25,0	50,0	324,5	1285	61,3	x5	MR1-100
13-02-2021 13:08:14	5,34	13,72	1301	11	14	992	25,0	50,0	324,5	1286	61,2	x5	MR1-100
13-02-2021 13:08:15	5,34	13,75	1299	11	13	992	25,0	50,0	325,1	1284	61,2	x5	MR1-100
13-02-2021 13:08:16	5,34	13,79	1298	10	14	992	25,0	50,0	325,1	1283	61,2	x5	MR1-100
13-02-2021 13:08:17	5,34	13,81	1299	10	13	992	25,0	50,0	329,1	1284	61,2	x5	MR1-100
13-02-2021 13:08:18	5,34	13,81	1299	10	13	992	25,0	50,0	329,1	1284	61,2	x5	MR1-100
13-02-2021 13:08:19	5,34	13,76	1300	10	12	992	25,0	50,0	328,4	1285	61,3	x5	MR1-100
13-02-2021 13:08:20	5,34	13,70	1303	10	11	992	25,0	50,0	328,9	1288	61,3	x5	MR1-100
13-02-2021 13:08:21	5,34	13,68	1312	10	10	992	25,0	50,0	328,9	1297	61,3	x5	MR1-100
13-02-2021 13:08:22	5,45	13,68	1310	11	9	992	25,0	50,0	329,5	1295	61,3	x5	MR1-100
13-02-2021 13:08:23	5,45	13,64	1310	10	9	992	25,0	50,0	329,5	1295	61,4	x5	MR1-100
13-02-2021 13:08:24	5,45	13,61	1308	11	9	992	25,0	50,0	327,1	1293	61,3	x5	MR1-100
13-02-2021 13:08:25	5,45	13,60	1313	11	9	992	25,0	50,0	329,1	1298	61,4	x5	MR1-100
13-02-2021 13:08:26	5,45	13,64	1315	11	8	992	25,0	50,0	329,1	1300	61,5	x5	MR1-100
13-02-2021 13:08:27	5,39	13,69	1315	11	8	992	25,0	50,0	328,9	1300	61,5	x5	MR1-100
13-02-2021 13:08:28	5,39	13,71	1315	11	7	992	25,0	50,0	328,9	1300	61,5	x5	MR1-100
13-02-2021 13:08:29	5,39	13,67	1315	11	7	992	25,0	50,0	329,9	1300	61,5	x5	MR1-100
13-02-2021 13:08:30	5,39	13,67	1317	11	7	992	25,0	50,0	329,9	1302	61,6	x5	MR1-100
13-02-2021 13:08:31	5,39	13,65	1322	11	6	992	25,0	50,0	329,3	1307	61,7	x5	MR1-100
13-02-2021 13:08:32	5,39	13,65	1323	11	5	992	25,0	50,0	329,7	1308	61,6	x5	MR1-100
13-02-2021 13:08:33	5,39	13,63	1324	11	5	992	25,0	50,0	329,7	1309	61,7	x5	MR1-100
13-02-2021 13:08:34	5,46	13,62	1326	11	4	992	25,0	50,0	332,2	1311	61,8	x5	MR1-100
13-02-2021 13:08:35	5,46	13,62	1326	11	5	992	25,0	50,0	332,2	1311	61,8	x5	MR1-100
13-02-2021 13:08:36	5,46	13,58	1324	11	3	992	25,0	50,0	333,2	1309	61,8	x5	MR1-100
13-02-2021 13:08:37	5,47	13,53	1328	11	2	992	25,0	50,0	328,5	1312	62,0	x5	MR1-100
13-02-2021 13:08:38	5,47	13,50	1349	11	2	992	25,0	50,0	328,5	1334	62,3	x5	MR1-100
13-02-2021 13:08:39	5,47	13,48	1353	11	5	992	25,0	50,0	326,6	1338	62,5	x5	MR1-100
13-02-2021 13:08:40	5,58	13,51	1350	11	4	992	25,0	50,0	326,6	1335	62,5	x5	MR1-100
13-02-2021 13:08:41	5,58	13,57	1340	11	4	992	25,0	50,0	326,3	1325	62,3	x5	MR1-100
13-02-2021 13:08:42	5,58	13,62	1340	12	2	992	25,0	50,0	326,3	1325	62,3	x5	MR1-100
13-02-2021 13:08:43	5,58	13,62	1328	12	2	992	25,0	50,0	326,7	1313	62,1	x5	MR1-100
13-02-2021 13:08:44	5,58	13,65	1319	11	0	992	25,0	50,0	327,9	1304	61,9	x5	MR1-100
13-02-2021 13:08:45	5,58	13,67	1312	12	0	992	25,0	50,0	327,9	1297	61,7	x5	MR1-100
13-02-2021 13:08:46	5,41	13,66	1308	11	0	992	25,0	50,0	325,5	1293	61,5	x5	MR1-100
13-02-2021 13:08:47	5,41	13,67	1307	11	0	992	25,0	50,0	325,5	1292	61,5	x5	MR1-100
13-02-2021 13:08:48	5,41	13,66	1311	11	0	992	25,0	50,0	324,9	1296	61,5	x5	MR1-100
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13-02-2021 13:08:50	5,41	13,73	1313	11	0	992	25,0	50,0	326,5	1298	61,4	x5	MR1-100
13-02-2021 13:08:51	5,41	13,77	1312	11	0	992	25,0	50,0	328,7	1298	61,2	x5	MR1-100
13-02-2021 13:08:52	5,35	13,77	1307	11	0	992	25,0	50,0	328,7	1293	61,1	x5	MR1-100
13-02-2021 13:08:53	5,35	13,77	1308	11	0	992	25,0	50,0	329,8	1293	61,2	x5	MR1-100
13-02-2021 13:08:54	5,35	13,73	1311	10	0	992	25,0	50,0	329,8	1296	61,4	x5	MR1-100
13-02-2021 13:08:55	5,35	13,62	1318	10	0	992	25,0	50,0	327,7	1303	61,7	x5	MR1-100
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13-02-2021 13:08:57	5,35	13,57	1338	10	0	992	25,0	50,0	327,8	1323	62,1	x5	MR1-100
13-02-2021 13:08:58	5,49	13,60	1333	11	0	992	25,0	50,0	328,2	1318	62,1	x5	MR1-100
13-02-2021 13:08:59	5,49	13,65	1333	11	0	992	25,0	50,0	328,2	1318	62,0	x5	MR1-100
13-02-2021 13:09:00	5,49	13,66	1323	11	0	992	25,0	50,0	328,2	1308	61,8	x5	MR1-100
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13-02-2021 13:09:04	5,45	13,62	1328	11	0	992	25,0	50,0	326,3	1313	62,0	x5	MR1-100
13-02-2021 13:09:05	5,45	13,62	1332	11	0	992	25,0	50,0	327,7	1317	62,1	x5	MR1-100
13-02-2021 13:09:06	5,45	13,63	1331	11	0	992	25,0	50,0	327,7	1316	62,1	x5	MR1-100
13-02-2021 13:09:07	5,45	13,63	1331	11	0	992	25,0	50,0	329,9	1316	62,1	x5	MR1-100
13-02-2021 13:09:08	5,45	13,71	1328	11	0	992	25,0	50,0	329,9	1313	62,1	x5	MR1-100
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13-02-2021 13:09:28	5,51	13,53	1332	13	0	992	25,0	50,0	322,1	1316	62,4	x5	MR1-100
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13-02-2021 13:09:30	5,47	13,68	1319	12	0	992	25,0	50,0	322,3	1304	62,0	x5	MR1-100
13-02-2021 13:09:31	5,47	13,71	1312	12	0	992	25,0	50,0	322,3	1297	61,8	x5	MR1-100
13-02-2021 13:09:32	5,47	13,71	1307	12	0	992	25,0	50,0	322,1	1292	61,6	x5	MR1-100
13-02-2021 13:09:33	5,47	13,70	1307	12	0	992	25,0	50,0	321,1	1292	61,5	x5	MR1-100
13-02-2021 13:09:34	5,47	13,71	1307	12	0	992	25,0	50,0	321,1	1292	61,5	x5	MR1-100
13-02-2021 13:09:35	5,37	13,71	1307	12	0	992	25,0	50,0	320,8	1292	61,6	x5	MR1-100
13-02-2021 13:09:36	5,37	13,71	1306	11	0	992	25,0	50,0	320,8	1291	61,6	x5	MR1-100
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13-02-2021 13:09:38	5,37	13,74	1303	11	0	992	25,0	50,0	320,8	1288	61,7	x5	MR1-100
13-02-2021 13:09:39	5,37	13,79	1304	11	0	992	25,0	50,0	321,5	1289	61,7	x5	MR1-100
13-02-2021 13:09:40	5,37	13,82	1307	11	0	992	25,0	50,0	324,3	1292	61,8	x5	MR1-100
13-02-2021 13:09:41	5,37	13,82	1307	11	0	992	25,0	50,0	324,3	1292	61,8	x5	MR1-100
13-02-2021 13:09:42	5,30	13,82	1309	10	0	992	25,0	50,0	325,0	1294	61,8	x5	MR1-100
13-02-2021 13:09:43	5,30	13,78	1308	11	0	992	25,0	50,0	325,0	1293	61,8	x5	MR1-100



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13-02-2021 13:09:44	5,30	13,74	1309	11	0	992	25,0	50,0	327,6	1294	61,9	x5	MR1-100
13-02-2021 13:09:45	5,30	13,70	1317	11	0	992	25,0	50,0	328,5	1302	62,0	x5	MR1-100
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13-02-2021 13:09:47	5,30	13,65	1322	11	0	992	25,0	50,0	328,5	1307	62,0	x5	MR1-100
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13-02-2021 13:10:26	5,42	13,64	1339	11	0	992	25,0	50,0	328,3	1323	62,8	x5	MR1-100
13-02-2021 13:10:27	5,42	13,61	1338	11	0	992	25,0	50,0	328,3	1322	62,9	x5	MR1-100
13-02-2021 13:10:28	5,42	13,58	1341	11	0	992	25,0	50,0	327,0	1325	63,1	x5	MR1-100
13-02-2021 13:10:29	5,42	13,56	1344	11	0	992	25,0	50,0	327,4	1328	63,2	x5	MR1-100
13-02-2021 13:10:30	5,47	13,59	1344	11	0	992	25,0	50,0	327,4	1328	63,1	x5	MR1-100
13-02-2021 13:10:31	5,47	13,59	1341	11	0	992	25,0	50,0	328,6	1325	62,9	x5	MR1-100
13-02-2021 13:10:32	5,47	13,63	1338	11	0	992	25,0	50,0	328,6	1322	62,9	x5	MR1-100
13-02-2021 13:10:33	5,47	13,63	1336	11	0	992	25,0	50,0	325,7	1320	62,9	x5	MR1-100
13-02-2021 13:10:34	5,47	13,61	1338	11	0	992	25,0	50,0	326,1	1322	62,9	x5	MR1-100
13-02-2021 13:10:35	5,47	13,61	1337	11	0	992	25,0	50,0	326,1	1321	62,8	x5	MR1-100
13-02-2021 13:10:36	5,45	13,64	1329	11	0	992	25,0	50,0	325,5	1313	62,6	x5	MR1-100
13-02-2021 13:10:37	5,45	13,66	1327	11	0	992	25,0	50,0	325,5	1311	62,5	x5	MR1-100



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13-02-2021 13:10:38	5,45	13,66	1327	11	0	992	25,0	50,0	324,9	1311	62,5	x5	MR1-100
13-02-2021 13:10:39	5,45	13,64	1326	11	0	992	25,0	50,0	324,9	1310	62,5	x5	MR1-100
13-02-2021 13:10:40	5,45	13,64	1324	10	0	992	25,0	50,0	326,5	1308	62,4	x5	MR1-100
13-02-2021 13:10:41	5,45	13,67	1320	10	0	992	25,0	50,0	326,5	1305	62,2	x5	MR1-100
13-02-2021 13:10:42	5,45	13,69	1321	10	0	992	25,0	50,0	326,5	1306	62,3	x5	MR1-100
13-02-2021 13:10:43	5,39	13,68	1325	11	0	992	25,0	50,0	326,9	1310	62,4	x5	MR1-100
13-02-2021 13:10:44	5,39	13,66	1330	10	0	992	25,0	50,0	326,9	1315	62,4	x5	MR1-100
13-02-2021 13:10:45	5,39	13,66	1332	10	0	992	25,0	50,0	325,9	1317	62,4	x5	MR1-100
13-02-2021 13:10:46	5,39	13,67	1335	10	0	992	25,0	50,0	325,9	1320	62,4	x5	MR1-100
13-02-2021 13:10:47	5,39	13,66	1334	10	0	992	25,0	50,0	324,6	1319	62,4	x5	MR1-100
13-02-2021 13:10:48	5,41	13,66	1335	10	0	992	25,0	50,0	323,4	1320	62,4	x5	MR1-100
13-02-2021 13:10:49	5,41	13,66	1337	10	0	992	25,0	50,0	323,4	1322	62,5	x5	MR1-100
13-02-2021 13:10:50	5,41	13,66	1337	10	0	992	25,0	50,0	326,5	1322	62,5	x5	MR1-100
13-02-2021 13:10:51	5,41	13,69	1332	10	0	992	25,0	50,0	326,5	1317	62,3	x5	MR1-100
13-02-2021 13:10:52	5,41	13,75	1326	10	0	992	25,0	50,0	328,0	1311	62,3	x5	MR1-100
13-02-2021 13:10:53	5,41	13,72	1325	10	0	992	25,0	50,0	328,0	1310	62,3	x5	MR1-100
13-02-2021 13:10:54	5,41	13,68	1330	10	0	992	25,0	50,0	326,0	1315	62,3	x5	MR1-100
13-02-2021 13:10:55	5,41	13,66	1330	10	0	992	25,0	50,0	329,2	1315	62,2	x5	MR1-100
13-02-2021 13:10:56	5,41	13,66	1330	10	0	992	25,0	50,0	329,2	1315	62,2	x5	MR1-100
13-02-2021 13:10:57	5,41	13,66	1330	10	0	992	25,0	50,0	330,0	1315	62,2	x5	MR1-100
13-02-2021 13:10:58	5,41	13,65	1332	10	0	992	25,0	50,0	330,0	1317	62,2	x5	MR1-100
13-02-2021 13:10:59	5,41	13,61	1338	10	0	992	25,0	50,0	329,3	1323	62,5	x5	MR1-100
13-02-2021 13:11:00	5,41	13,57	1344	10	0	992	25,0	50,0	329,3	1329	62,6	x5	MR1-100
13-02-2021 13:11:01	5,50	13,54	1348	10	0	992	25,0	50,0	329,7	1333	62,6	x5	MR1-100
13-02-2021 13:11:02	5,50	13,52	1350	11	0	992	25,0	50,0	326,8	1335	62,7	x5	MR1-100
13-02-2021 13:11:03	5,50	13,53	1350	11	0	992	25,0	50,0	326,8	1335	62,7	x5	MR1-100
13-02-2021 13:11:04	5,51	13,54	1348	11	0	992	25,0	50,0	327,5	1333	62,6	x5	MR1-100
13-02-2021 13:11:05	5,51	13,56	1344	11	0	992	25,0	50,0	327,5	1329	62,5	x5	MR1-100
13-02-2021 13:23:39	5,26	13,82	1264	10	129	992	25,0	50,0	318,5	1256	53,6	x5	MR1-100
13-02-2021 13:23:40	5,26	13,69	1265	10	129	992	25,0	50,0	318,5	1256	53,6	x5	MR1-100
13-02-2021 13:23:41	5,53	13,67	1280	10	124	992	25,0	50,0	318,2	1270	55,3	x5	MR1-100
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13-02-2021 13:23:43	5,53	13,79	1284	11	112	992	25,0	50,0	318,1	1272	57,7	x5	MR1-100
13-02-2021 13:23:44	5,53	13,85	1280	11	106	992	25,0	50,0	321,0	1267	58,4	x5	MR1-100
13-02-2021 13:23:45	5,53	13,88	1277	11	100	992	25,0	50,0	321,0	1264	59,1	x5	MR1-100
13-02-2021 13:23:46	5,53	13,89	1278	11	94	992	25,0	50,0	323,7	1264	60,4	x5	MR1-100
13-02-2021 13:23:47	5,33	13,85	1283	11	89	992	25,0	50,0	328,3	1268	61,0	x5	MR1-100
13-02-2021 13:23:48	5,33	13,81	1288	12	89	992	25,0	50,0	328,3	1273	61,0	x5	MR1-100
13-02-2021 13:23:49	5,33	13,77	1292	11	87	992	25,0	50,0	326,4	1277	61,4	x5	MR1-100
13-02-2021 13:23:50	5,33	13,71	1298	11	85	992	25,0	50,0	326,4	1282	61,9	x5	MR1-100
13-02-2021 13:23:51	5,33	13,64	1309	11	82	992	25,0	50,0	328,9	1292	62,9	x5	MR1-100
13-02-2021 13:23:52	5,33	13,61	1323	11	82	992	25,0	50,0	328,9	1306	63,2	x5	MR1-100
13-02-2021 13:23:53	5,51	13,62	1325	12	81	992	25,0	50,0	329,0	1308	63,5	x5	MR1-100
13-02-2021 13:23:54	5,51	13,59	1325	12	81	992	25,0	50,0	326,3	1308	63,5	x5	MR1-100
13-02-2021 13:23:55	5,51	13,56	1329	12	78	992	25,0	50,0	326,3	1312	64,0	x5	MR1-100
13-02-2021 13:23:56	5,51	13,52	1331	12	77	992	25,0	50,0	326,0	1314	64,0	x5	MR1-100
13-02-2021 13:23:57	5,51	13,53	1328	12	77	992	25,0	50,0	326,0	1310	64,0	x5	MR1-100
13-02-2021 13:23:58	5,51	13,57	1321	12	75	992	25,0	50,0	326,3	1304	63,9	x5	MR1-100
13-02-2021 13:23:59	5,45	13,63	1312	12	73	992	25,0	50,0	326,3	1295	63,6	x5	MR1-100
13-02-2021 13:24:00	5,45	13,67	1307	12	67	992	25,0	50,0	326,6	1290	63,6	x5	MR1-100
13-02-2021 13:24:01	5,45	13,67	1311	12	67	992	25,0	50,0	326,6	1294	63,6	x5	MR1-100
13-02-2021 13:24:02	5,45	13,66	1315	12	66	992	25,0	50,0	330,4	1298	63,6	x5	MR1-100
13-02-2021 13:24:03	5,45	13,64	1314	11	64	992	25,0	50,0	332,1	1297	63,6	x5	MR1-100
13-02-2021 13:24:04	5,45	13,59	1312	12	63	992	25,0	50,0	332,1	1295	63,6	x5	MR1-100


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13-02-2021 13:24:05	5,54	13,51	1315	11	60	992	25,0	50,0	331,1	1297	63,9	x5	MR1-100
13-02-2021 13:24:06	5,54	13,44	1325	12	59	992	25,0	50,0	331,1	1307	64,0	x5	MR1-100
13-02-2021 13:24:07	5,54	13,41	1325	12	59	992	25,0	50,0	327,3	1307	64,0	x5	MR1-100
13-02-2021 13:24:08	5,54	13,40	1331	12	59	992	25,0	50,0	327,3	1313	64,0	x5	MR1-100
13-02-2021 13:24:09	5,54	13,41	1332	12	57	992	25,0	50,0	322,7	1314	64,0	x5	MR1-100
13-02-2021 13:24:10	5,54	13,47	1330	12	55	992	25,0	50,0	321,6	1313	63,8	x5	MR1-100
13-02-2021 13:24:11	5,49	13,56	1319	12	53	992	25,0	50,0	321,6	1302	63,6	x5	MR1-100
13-02-2021 13:24:12	5,49	13,65	1319	12	53	992	25,0	50,0	321,5	1302	63,6	x5	MR1-100
13-02-2021 13:24:13	5,49	13,73	1308	12	48	992	25,0	50,0	321,5	1291	63,3	x5	MR1-100
13-02-2021 13:24:14	5,49	13,76	1299	12	45	992	25,0	50,0	322,9	1282	63,0	x5	MR1-100
13-02-2021 13:24:15	5,49	13,76	1295	11	45	992	25,0	50,0	322,9	1278	63,0	x5	MR1-100
13-02-2021 13:24:16	5,49	13,77	1295	12	44	992	25,0	50,0	323,0	1278	62,9	x5	MR1-100
13-02-2021 13:24:17	5,49	13,79	1301	11	42	992	25,0	50,0	322,0	1284	63,1	x5	MR1-100
13-02-2021 13:24:18	5,34	13,77	1307	11	41	992	25,0	50,0	322,0	1291	63,1	x5	MR1-100
13-02-2021 13:24:19	5,34	13,76	1308	11	41	992	25,0	50,0	325,4	1292	63,1	x5	MR1-100
13-02-2021 13:24:20	5,34	13,78	1306	11	39	992	25,0	50,0	325,4	1290	63,0	x5	MR1-100
13-02-2021 13:24:21	5,34	13,82	1305	11	38	992	25,0	50,0	328,5	1289	62,9	x5	MR1-100
13-02-2021 13:24:22	5,34	13,79	1302	11	35	992	25,0	50,0	330,1	1286	62,7	x5	MR1-100
13-02-2021 13:24:23	5,42	13,72	1305	11	34	992	25,0	50,0	330,1	1288	62,9	x5	MR1-100
13-02-2021 13:24:24	5,42	13,65	1313	11	34	992	25,0	50,0	330,1	1296	62,9	x5	MR1-100
13-02-2021 13:24:25	5,42	13,58	1323	11	34	992	25,0	50,0	330,4	1306	63,1	x5	MR1-100
13-02-2021 13:24:26	5,42	13,53	1331	11	34	992	25,0	50,0	326,3	1314	63,3	x5	MR1-100
13-02-2021 13:24:27	5,42	13,53	1339	11	35	992	25,0	50,0	326,3	1322	63,6	x5	MR1-100
13-02-2021 13:24:28	5,42	13,51	1344	11	34	992	25,0	50,0	324,0	1327	63,7	x5	MR1-100
13-02-2021 13:24:29	5,42	13,56	1342	12	33	992	25,0	50,0	320,8	1325	63,6	x5	MR1-100
13-02-2021 13:24:30	5,49	13,63	1334	12	32	992	25,0	50,0	320,8	1318	63,4	x5	MR1-100
13-02-2021 13:24:31	5,49	13,70	1325	12	28	992	25,0	50,0	323,2	1309	63,2	x5	MR1-100
13-02-2021 13:24:32	5,49	13,76	1322	11	26	992	25,0	50,0	323,2	1306	63,1	x5	MR1-100
13-02-2021 13:24:33	5,49	13,81	1316	11	26	992	25,0	50,0	327,0	1300	62,9	x5	MR1-100
13-02-2021 13:24:34	5,49	13,82	1308	11	25	992	25,0	50,0	327,0	1292	62,8	x5	MR1-100
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13-02-2021 13:24:42	5,59	13,48	1341	11	17	992	25,0	50,0	325,4	1325	63,0	x5	MR1-100
13-02-2021 13:24:43	5,59	13,47	1347	11	18	992	25,0	50,0	326,0	1331	63,0	x5	MR1-100
13-02-2021 13:24:44	5,59	13,51	1342	11	17	992	25,0	50,0	326,0	1326	63,0	x5	MR1-100
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13-02-2021 13:24:46	5,60	13,57	1330	11	16	992	25,0	50,0	328,0	1314	62,8	x5	MR1-100
13-02-2021 13:24:47	5,60	13,66	1320	11	14	992	25,0	50,0	325,8	1304	62,6	x5	MR1-100
13-02-2021 13:24:48	5,46	13,61	1320	11	14	992	25,0	50,0	325,8	1304	62,7	x5	MR1-100
13-02-2021 13:24:49	5,46	13,61	1328	12	11	992	25,0	50,0	326,5	1312	62,7	x5	MR1-100
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13-02-2021 13:24:51	5,46	13,64	1331	11	11	992	25,0	50,0	327,5	1315	62,6	x5	MR1-100
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13-02-2021 13:24:55	5,47	13,65	1322	11	7	992	25,0	50,0	326,6	1306	62,3	x5	MR1-100
13-02-2021 13:24:56	5,47	13,66	1322	11	7	992	25,0	50,0	326,6	1306	62,3	x5	MR1-100
13-02-2021 13:24:57	5,47	13,64	1324	11	6	992	25,0	50,0	327,5	1308	62,5	x5	MR1-100
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13-02-2021 13:24:59	5,47	13,63	1332	11	5	992	25,0	50,0	329,6	1316	62,6	x5	MR1-100
13-02-2021 13:25:00	5,45	13,63	1330	11	5	992	25,0	50,0	329,6	1314	62,4	x5	MR1-100
13-02-2021 13:25:01	5,45	13,61	1333	11	5	992	25,0	50,0	326,2	1318	62,3	x5	MR1-100
13-02-2021 13:25:02	5,45	13,58	1333	11	5	992	25,0	50,0	326,2	1318	62,3	x5	MR1-100
13-02-2021 13:25:03	5,45	13,58	1337	11	5	992	25,0	50,0	327,1	1322	62,4	x5	MR1-100
13-02-2021 13:25:04	5,45	13,57	1337	12	4	992	25,0	50,0	327,1	1322	62,4	x5	MR1-100
13-02-2021 13:25:05	5,45	13,62	1332	12	3	992	25,0	50,0	324,5	1317	62,4	x5	MR1-100
13-02-2021 13:25:06	5,45	13,61	1329	12	3	992	25,0	50,0	325,0	1313	62,4	x5	MR1-100
13-02-2021 13:25:07	5,47	13,62	1328	12	1	992	25,0	50,0	325,0	1312	62,5	x5	MR1-100
13-02-2021 13:25:08	5,47	13,66	1328	12	1	992	25,0	50,0	327,1	1312	62,5	x5	MR1-100
13-02-2021 13:25:09	5,47	13,66	1324	12	1	992	25,0	50,0	327,1	1308	62,5	x5	MR1-100
13-02-2021 13:25:10	5,47	13,68	1321	12	1	992	25,0	50,0	327,0	1305	62,5	x5	MR1-100
13-02-2021 13:25:11	5,47	13,64	1326	11	1	992	25,0	50,0	329,8	1310	62,7	x5	MR1-100
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13-02-2021 13:25:14	5,45	13,59	1344	11	0	992	25,0	50,0	327,4	1328	63,0	x5	MR1-100
13-02-2021 13:25:15	5,45	13,55	1346	11	1	992	25,0	50,0	327,9	1330	63,0	x5	MR1-100
13-02-2021 13:25:16	5,45	13,56	1344	11	1	992	25,0	50,0	323,3	1328	62,9	x5	MR1-100
13-02-2021 13:25:17	5,45	13,56	1338	11	1	992	25,0	50,0	323,3	1322	62,9	x5	MR1-100
13-02-2021 13:25:18	5,45	13,56	1334	12	0	992	25,0	50,0	323,3	1318	62,8	x5	MR1-100
13-02-2021 13:25:19	5,49	13,60	1333	11	0	992	25,0	50,0	325,7	1317	62,7	x5	MR1-100
13-02-2021 13:25:20	5,49	13,67	1331	12	0	992	25,0	50,0	324,1	1315	62,6	x5	MR1-100
13-02-2021 13:25:21	5,49	13,67	1328	12	0	992	25,0	50,0	324,1	1312	62,6	x5	MR1-100
13-02-2021 13:25:22	5,49	13,70	1327	11	0	992	25,0	50,0	328,7	1312	62,4	x5	MR1-100
13-02-2021 13:25:23	5,49	13,69	1330	11	0	992	25,0	50,0	328,7	1315	62,4	x5	MR1-100
13-02-2021 13:25:24	5,49	13,69	1330	11	0	992	25,0	50,0	329,0	1315	62,4	x5	MR1-100
13-02-2021 13:25:25	5,41	13,65	1334	11	0	992	25,0	50,0	327,1	1319	62,5	x5	MR1-100
13-02-2021 13:25:26	5,41	13,58	1343	11	0	992	25,0	50,0	327,1	1328	62,6	x5	MR1-100
13-02-2021 13:25:27	5,41	13,58	1350	11	0	992	25,0	50,0	322,1	1335	62,7	x5	MR1-100
13-02-2021 13:25:28	5,42	13,54	1351	11	0	992	25,0	50,0	322,1	1336	62,7	x5	MR1-100
13-02-2021 13:25:29	5,42	13,57	1345	11	0	992	25,0	50,0	321,0	1330	62,7	x5	MR1-100
13-02-2021 13:25:30	5,42	13,64	1336	11	0	992	25,0	50,0	325,5	1321	62,6	x5	MR1-100
13-02-2021 13:25:31	5,38	13,74	1326	11	0	992	25,0	50,0	325,5	1311	62,3	x5	MR1-100
13-02-2021 13:25:32	5,38	13,81	1319	11	0	992	25,0	50,0	327,3	1304	62,2	x5	MR1-100
13-02-2021 13:25:33	5,38	13,80	1316	11	0	992	25,0	50,0	327,3	1301	62,1	x5	MR1-100
13-02-2021 13:25:34	5,38	13,74	1319	11	0	992	25,0	50,0	324,7	1304	62,1	x5	MR1-100
13-02-2021 13:25:35	5,38	13,74	1325	11	0	992	25,0	50,0	324,7	1310	62,1	x5	MR1-100
13-02-2021 13:25:36	5,38	13,62	1330	11	0	992	25,0	50,0	326,6	1315	62,2	x5	MR1-100
13-02-2021 13:25:37	5,48	13,61	1333	11	0	992	25,0	50,0	326,6	1318	62,2	x5	MR1-100
13-02-2021 13:25:38	5,48	13,61	1331	11	0	992	25,0	50,0	326,8	1316	62,2	x5	MR1-100
13-02-2021 13:25:39	5,48	13,62	1329	11	0	992	25,0	50,0	326,9	1314	62,2	x5	MR1-100
13-02-2021 13:25:40	5,48	13,61	1330	11	0	992	25,0	50,0	326,9	1315	62,3	x5	MR1-100
13-02-2021 13:25:41	5,48	13,60	1332	11	0	992	25,0	50,0	323,5	1317	62,3	x5	MR1-100
13-02-2021 13:25:42	5,48	13,61	1337	11	0	992	25,0	50,0	323,5	1322	62,4	x5	MR1-100
13-02-2021 13:25:43	5,48	13,63	1341	11	0	992	25,0	50,0	322,9	1326	62,4	x5	MR1-100
13-02-2021 13:25:44	5,48	13,63	1338	11	0	992	25,0	50,0	322,9	1323	62,3	x5	MR1-100
13-02-2021 13:25:45	5,48	13,67	1332	11	0	992	25,0	50,0	319,9	1317	62,1	x5	MR1-100
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13-02-2021 13:25:47	5,48	13,76	1317	11	0	992	25,0	50,0	322,5	1302	61,8	x5	MR1-100
13-02-2021 13:25:48	5,48	13,82	1310	10	0	992	25,0	50,0	326,0	1295	61,5	x5	MR1-100
13-02-2021 13:25:49	5,27	13,84	1306	10	0	992	25,0	50,0	326,0	1291	61,4	x5	MR1-100
13-02-2021 13:25:50	5,27	13,83	1304	10	0	992	25,0	50,0	326,2	1289	61,3	x5	MR1-100
13-02-2021 13:25:51	5,27	13,78	1309	10	0	992	25,0	50,0	326,2	1294	61,3	x5	MR1-100
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13-02-2021 13:25:53	5,27	13,72	1324	10	0	992	25,0	50,0	331,0	1309	61,5	x5	MR1-100
13-02-2021 13:25:54	5,27	13,67	1331	10	0	992	25,0	50,0	331,0	1316	61,6	x5	MR1-100
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13-02-2021 13:25:56	5,48	13,52	1348	10	0	992	25,0	50,0	327,9	1333	62,1	x5	MR1-100
13-02-2021 13:25:57	5,48	13,49	1352	10	0	992	25,0	50,0	324,9	1337	62,2	x5	MR1-100
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13-02-2021 13:26:03	5,40	13,70	1335	11	0	992	25,0	50,0	325,2	1320	61,9	x5	MR1-100
13-02-2021 13:26:04	5,40	13,70	1336	10	0	992	25,0	50,0	325,7	1321	61,9	x5	MR1-100
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13-02-2021 13:26:45	5,49	13,57	1343	11	0	992	25,0	50,0	324,7	1329	61,2	x5	MR1-100
13-02-2021 13:26:46	5,49	13,61	1345	11	0	992	25,0	50,0	326,3	1331	61,3	x5	MR1-100


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13-02-2021 13:26:47	5,49	13,67	1342	11	0	992	25,0	50,0	326,3	1328	61,2	x5	MR1-100
13-02-2021 13:26:48	5,49	13,67	1340	11	0	992	25,0	50,0	329,9	1326	61,2	x5	MR1-100
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13-02-2021 13:27:41	5,53	13,54	1344	10	0	992	25,0	50,0	324,7	1330	61,2	x5	MR1-100
13-02-2021 13:27:42	5,53	13,57	1341	10	0	992	25,0	50,0	322,0	1327	61,2	x5	MR1-100
13-02-2021 13:27:43	5,53	13,62	1339	10	0	992	25,0	50,0	322,0	1325	61,1	x5	MR1-100
13-02-2021 13:27:44	5,53	13,65	1336	10	0	992	25,0	50,0	320,9	1322	60,9	x5	MR1-100
13-02-2021 13:27:45	5,53	13,70	1328	10	0	992	25,0	50,0	317,9	1314	60,8	x5	MR1-100
13-02-2021 13:27:46	5,32	13,76	1328	10	0	992	25,0	50,0	317,9	1314	60,8	x5	MR1-100
13-02-2021 13:27:47	5,32	13,82	1312	9	0	992	25,0	50,0	320,6	1298	60,7	x5	MR1-100
13-02-2021 13:27:48	5,32	13,93	1303	10	0	992	25,0	50,0	329,9	1290	60,2	x5	MR1-100
13-02-2021 13:27:49	5,32	13,93	1294	10	0	992	25,0	50,0	329,9	1281	59,9	x5	MR1-100
13-02-2021 13:27:50	5,32	14,00	1288	9	0	992	25,0	50,0	329,9	1275	59,8	x5	MR1-100
13-02-2021 13:27:51	5,32	13,83	1296	9	0	992	25,0	50,0	326,5	1282	60,0	x5	MR1-100
13-02-2021 13:27:52	5,34	13,70	1314	9	0	992	25,0	50,0	330,4	1300	60,2	x5	MR1-100
13-02-2021 13:27:53	5,34	13,68	1327	9	0	992	25,0	50,0	330,4	1314	60,3	x5	MR1-100
13-02-2021 13:27:54	5,34	13,68	1332	9	0	992	25,0	50,0	328,7	1319	60,3	x5	MR1-100
13-02-2021 13:27:55	5,34	13,70	1334	9	0	992	25,0	50,0	329,5	1321	60,4	x5	MR1-100
13-02-2021 13:27:56	5,34	13,66	1334	9	0	992	25,0	50,0	329,5	1321	60,4	x5	MR1-100
13-02-2021 13:27:57	5,34	13,63	1335	9	0	992	25,0	50,0	329,5	1322	60,5	x5	MR1-100
13-02-2021 13:27:58	5,45	13,63	1335	10	0	992	25,0	50,0	329,5	1321	60,6	x5	MR1-100
13-02-2021 13:27:59	5,45	13,63	1340	9	0	992	25,0	50,0	328,9	1326	60,8	x5	MR1-100
13-02-2021 13:28:00	5,45	13,63	1342	10	0	992	25,0	50,0	328,9	1329	60,8	x5	MR1-100
13-02-2021 13:28:01	5,45	13,63	1346	10	0	992	25,0	50,0	328,0	1333	60,8	x5	MR1-100
13-02-2021 13:28:02	5,45	13,64	1350	9	0	992	25,0	50,0	328,0	1337	60,9	x5	MR1-100
13-02-2021 13:28:03	5,45	13,65	1352	10	0	992	25,0	50,0	328,3	1339	61,0	x5	MR1-100
13-02-2021 13:28:04	5,41	13,68	1351	10	0	992	25,0	50,0	330,8	1338	61,0	x5	MR1-100
13-02-2021 13:28:05	5,41	13,68	1351	10	0	992	25,0	50,0	330,8	1338	61,0	x5	MR1-100
13-02-2021 13:28:06	5,41	13,69	1350	10	0	992	25,0	50,0	331,3	1337	61,1	x5	MR1-100
13-02-2021 13:28:07	5,41	13,69	1351	10	0	992	25,0	50,0	331,3	1338	61,0	x5	MR1-100
13-02-2021 13:28:08	5,41	13,68	1354	9	0	992	25,0	50,0	334,4	1341	61,0	x5	MR1-100
13-02-2021 13:28:09	5,41	13,65	1356	10	0	992	25,0	50,0	334,4	1343	61,1	x5	MR1-100
13-02-2021 13:28:10	5,50	13,58	1357	10	0	992	25,0	50,0	334,5	1344	61,1	x5	MR1-100
13-02-2021 13:28:11	5,50	13,50	1361	10	0	992	25,0	50,0	333,6	1347	61,1	x5	MR1-100
13-02-2021 13:28:12	5,50	13,50	1364	10	0	992	25,0	50,0	333,6	1351	61,1	x5	MR1-100
13-02-2021 13:41:05	5,41	13,83	1270	10	132	992	25,0	50,0	321,2	1261	54,9	x5	MR1-100
13-02-2021 13:41:06	5,41	13,85	1272	11	124	992	25,0	50,0	321,2	1261	56,3	x5	MR1-100
13-02-2021 13:41:07	5,41	13,82	1273	11	117	992	25,0	50,0	324,5	1261	57,5	x5	MR1-100
13-02-2021 13:41:08	5,47	13,76	1278	11	110	992	25,0	50,0	324,5	1265	58,5	x5	MR1-100
13-02-2021 13:41:09	5,47	13,69	1288	11	104	992	25,0	50,0	325,2	1274	59,6	x5	MR1-100
13-02-2021 13:41:10	5,47	13,61	1297	11	100	992	25,0	50,0	325,2	1282	60,6	x5	MR1-100
13-02-2021 13:41:11	5,47	13,56	1305	12	96	992	25,0	50,0	324,0	1289	61,4	x5	MR1-100
13-02-2021 13:41:12	5,47	13,55	1312	12	93	992	25,0	50,0	322,7	1296	62,2	x5	MR1-100
13-02-2021 13:41:13	5,47	13,54	1314	12	89	992	25,0	50,0	322,7	1297	63,2	x5	MR1-100
13-02-2021 13:41:14	5,47	13,55	1312	12	89	992	25,0	50,0	318,4	1295	63,2	x5	MR1-100
13-02-2021 13:41:15	5,57	13,57	1315	12	86	992	25,0	50,0	318,4	1298	63,6	x5	MR1-100
13-02-2021 13:41:16	5,57	13,61	1317	12	85	992	25,0	50,0	319,7	1299	63,9	x5	MR1-100
13-02-2021 13:41:17	5,57	13,67	1312	12	83	992	25,0	50,0	319,7	1294	64,1	x5	MR1-100
13-02-2021 13:41:18	5,57	13,73	1304	12	82	992	25,0	50,0	324,1	1286	64,2	x5	MR1-100
13-02-2021 13:41:19	5,57	13,77	1300	12	78	992	25,0	50,0	324,3	1282	64,3	x5	MR1-100
13-02-2021 13:41:20	5,57	13,73	1303	12	78	992	25,0	50,0	324,3	1285	64,5	x5	MR1-100
13-02-2021 13:41:21	5,46	13,64	1312	12	75	992	25,0	50,0	315,5	1293	64,9	x5	MR1-100
13-02-2021 13:41:22	5,46	13,58	1318	11	74	992	25,0	50,0	315,5	1299	65,2	x5	MR1-100
13-02-2021 13:41:23	5,46	13,57	1316	12	74	992	25,0	50,0	314,9	1297	65,1	x5	MR1-100
13-02-2021 13:41:24	5,46	13,67	1290	12	73	992	25,0	50,0	314,9	1271	64,8	x5	MR1-100
13-02-2021 13:41:25	5,46	13,77	1242	12	69	992	25,0	50,0	312,5	1228	63,1	x5	MR1-100
13-02-2021 13:41:26	5,46	13,83	1196	11	52	992	25,0	50,0	312,4	1177	61,7	x5	MR1-100



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13-02-2021 13:41:27	5,33	13,86	1162	11	52	992	25,0	50,0	312,4	1143	60,4	x5	MR1-100
13-02-2021 13:41:28	5,33	13,90	1136	11	48	992	25,0	50,0	318,3	1118	59,1	x5	MR1-100
13-02-2021 13:41:29	5,33	13,93	1135	11	43	992	25,0	50,0	318,3	1118	58,0	x5	MR1-100
13-02-2021 13:41:30	5,33	13,92	1118	11	38	992	25,0	50,0	315,1	1101	57,4	x5	MR1-100
13-02-2021 13:41:31	5,33	13,85	1143	11	35	992	25,0	50,0	318,8	1127	57,5	x5	MR1-100
13-02-2021 13:41:32	5,33	13,82	1181	11	36	992	25,0	50,0	318,8	1165	58,1	x5	MR1-100
13-02-2021 13:41:33	5,32	13,85	1213	11	36	992	25,0	50,0	320,3	1198	58,7	x5	MR1-100
13-02-2021 13:41:34	5,32	13,89	1238	11	41	992	25,0	50,0	320,3	1223	59,3	x5	MR1-100
13-02-2021 13:41:35	5,32	13,88	1255	10	51	992	25,0	50,0	320,4	1240	59,9	x5	MR1-100
13-02-2021 13:41:36	5,32	13,84	1267	10	51	992	25,0	50,0	320,4	1252	60,3	x5	MR1-100
13-02-2021 13:41:37	5,32	13,81	1277	11	52	992	25,0	50,0	321,1	1262	60,6	x5	MR1-100
13-02-2021 13:41:38	5,32	13,78	1284	10	54	992	25,0	50,0	321,5	1269	61,0	x5	MR1-100
13-02-2021 13:41:39	5,38	13,78	1291	11	55	992	25,0	50,0	321,5	1276	61,4	x5	MR1-100
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13-02-2021 13:41:42	5,38	13,75	1303	11	53	992	25,0	50,0	324,2	1287	62,2	x5	MR1-100
13-02-2021 13:41:43	5,38	13,74	1303	11	52	992	25,0	50,0	324,2	1287	62,5	x5	MR1-100
13-02-2021 13:41:44	5,38	13,72	1310	11	50	992	25,0	50,0	326,1	1294	62,7	x5	MR1-100
13-02-2021 13:41:45	5,43	13,70	1312	10	49	992	25,0	50,0	324,0	1296	62,9	x5	MR1-100
13-02-2021 13:41:46	5,43	13,67	1319	11	46	992	25,0	50,0	324,0	1303	63,1	x5	MR1-100
13-02-2021 13:41:47	5,43	13,64	1327	11	46	992	25,0	50,0	325,3	1311	63,3	x5	MR1-100
13-02-2021 13:41:48	5,43	13,62	1330	11	44	992	25,0	50,0	325,3	1314	63,4	x5	MR1-100
13-02-2021 13:41:49	5,43	13,64	1331	11	44	992	25,0	50,0	322,0	1315	63,5	x5	MR1-100
13-02-2021 13:41:50	5,43	13,65	1333	11	42	992	25,0	50,0	322,0	1316	63,6	x5	MR1-100
13-02-2021 13:41:51	5,48	13,63	1330	11	40	992	25,0	50,0	320,1	1313	63,7	x5	MR1-100
13-02-2021 13:41:52	5,48	13,64	1328	11	38	992	25,0	50,0	321,4	1311	63,8	x5	MR1-100
13-02-2021 13:41:53	5,48	13,70	1325	11	36	992	25,0	50,0	321,4	1308	63,7	x5	MR1-100
13-02-2021 13:41:54	5,48	13,76	1319	11	36	992	25,0	50,0	319,3	1302	63,6	x5	MR1-100
13-02-2021 13:41:55	5,48	13,78	1314	11	34	992	25,0	50,0	319,3	1297	63,6	x5	MR1-100
13-02-2021 13:41:56	5,48	13,78	1312	11	33	992	25,0	50,0	323,6	1295	63,4	x5	MR1-100
13-02-2021 13:41:57	5,48	13,83	1309	11	30	992	25,0	50,0	323,6	1293	63,2	x5	MR1-100
13-02-2021 13:41:58	5,34	13,84	1304	11	29	992	25,0	50,0	323,4	1288	63,1	x5	MR1-100
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13-02-2021 13:42:00	5,33	13,74	1314	11	25	992	25,0	50,0	323,2	1298	63,1	x5	MR1-100
13-02-2021 13:42:01	5,33	13,72	1321	11	26	992	25,0	50,0	327,6	1305	63,2	x5	MR1-100
13-02-2021 13:42:02	5,33	13,71	1323	11	26	992	25,0	50,0	327,6	1307	63,2	x5	MR1-100
13-02-2021 13:42:03	5,33	13,71	1324	11	25	992	25,0	50,0	326,6	1308	63,2	x5	MR1-100
13-02-2021 13:42:04	5,43	13,68	1327	11	24	992	25,0	50,0	323,9	1311	63,2	x5	MR1-100
13-02-2021 13:42:05	5,43	13,62	1329	11	24	992	25,0	50,0	323,9	1313	63,2	x5	MR1-100
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13-02-2021 13:42:09	5,43	13,68	1319	11	19	992	25,0	50,0	321,5	1303	63,0	x5	MR1-100
13-02-2021 13:42:10	5,41	13,73	1312	11	17	992	25,0	50,0	324,3	1296	62,8	x5	MR1-100
13-02-2021 13:42:11	5,41	13,77	1308	11	17	992	25,0	50,0	323,5	1292	62,7	x5	MR1-100
13-02-2021 13:42:12	5,41	13,78	1308	11	17	992	25,0	50,0	323,5	1292	62,6	x5	MR1-100
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13-02-2021 13:42:19	5,44	13,74	1303	11	11	992	25,0	50,0	322,3	1287	62,2	x5	MR1-100
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13-02-2021 13:42:21	5,44	13,73	1304	11	9	992	25,0	50,0	321,3	1288	62,1	x5	MR1-100
13-02-2021 13:42:22	5,44	13,73	1304	12	8	992	25,0	50,0	324,1	1288	62,0	x5	MR1-100
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13-02-2021 13:42:24	5,40	13,80	1303	11	8	992	25,0	50,0	326,2	1288	62,0	x5	MR1-100
13-02-2021 13:42:25	5,40	13,79	1308	11	7	992	25,0	50,0	326,2	1293	62,1	x5	MR1-100
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13-02-2021 13:42:31	5,49	13,64	1329	11	6	992	25,0	50,0	323,5	1314	62,2	x5	MR1-100
13-02-2021 13:42:32	5,49	13,68	1328	11	6	992	25,0	50,0	323,5	1313	62,1	x5	MR1-100
13-02-2021 13:42:33	5,49	13,70	1323	11	6	992	25,0	50,0	322,9	1308	62,0	x5	MR1-100
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13-02-2021 13:42:37	5,42	13,72	1316	11	2	992	25,0	50,0	321,9	1301	62,0	x5	MR1-100
13-02-2021 13:42:38	5,42	13,72	1317	11	2	992	25,0	50,0	321,9	1302	62,1	x5	MR1-100
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13-02-2021 13:42:41	5,43	13,75	1319	11	2	992	25,0	50,0	326,3	1304	61,9	x5	MR1-100
13-02-2021 13:42:42	5,43	13,78	1320	11	1	992	25,0	50,0	326,3	1305	61,8	x5	MR1-100
13-02-2021 13:42:43	5,43	13,77	1318	11	0	992	25,0	50,0	324,9	1303	61,8	x5	MR1-100
13-02-2021 13:42:44	5,43	13,71	1319	11	0	992	25,0	50,0	324,9	1304	61,8	x5	MR1-100
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13-02-2021 13:42:47	5,49	13,67	1323	11	0	992	25,0	50,0	318,1	1308	61,7	x5	MR1-100
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13-02-2021 13:42:49	5,49	13,73	1297	11	0	992	25,0	50,0	317,2	1283	59,8	x5	MR1-100
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13-02-2021 13:42:55	5,33	13,75	1166	11	0	992	25,0	50,0	320,2	1152	55,3	x5	MR1-100
13-02-2021 13:42:56	5,33	13,76	1201	11	0	992	25,0	50,0	320,2	1188	56,0	x5	MR1-100
13-02-2021 13:42:57	5,33	13,76	1237	10	0	992	25,0	50,0	320,7	1224	56,6	x5	MR1-100
13-02-2021 13:42:58	5,33	13,76	1237	10	0	992	25,0	50,0	320,7	1224	57,1	x5	MR1-100
13-02-2021 13:42:59	5,37	13,80	1270	10	0	992	25,0	50,0	321,9	1258	57,5	x5	MR1-100
13-02-2021 13:43:00	5,37	13,80	1275	11	0	992	25,0	50,0	321,9	1263	57,8	x5	MR1-100
13-02-2021 13:43:01	5,37	13,80	1284	10	0	992	25,0	50,0	324,2	1272	58,2	x5	MR1-100
13-02-2021 13:43:02	5,37	13,78	1293	10	1	992	25,0	50,0	323,5	1280	58,7	x5	MR1-100
13-02-2021 13:43:03	5,37	13,74	1301	10	1	992	25,0	50,0	323,5	1288	59,2	x5	MR1-100
13-02-2021 13:43:04	5,37	13,68	1307	10	1	992	25,0	50,0	321,5	1294	59,6	x5	MR1-100
13-02-2021 13:43:05	5,46	13,65	1313	10	4	992	25,0	50,0	321,5	1299	60,0	x5	MR1-100
13-02-2021 13:43:06	5,46	13,65	1318	11	4	992	25,0	50,0	318,2	1304	60,3	x5	MR1-100
13-02-2021 13:43:07	5,46	13,69	1323	11	4	992	25,0	50,0	318,1	1309	60,6	x5	MR1-100
13-02-2021 13:43:08	5,46	13,75	1320	11	4	992	25,0	50,0	318,1	1306	60,7	x5	MR1-100
13-02-2021 13:43:09	5,46	13,83	1314	11	4	992	25,0	50,0	319,8	1300	60,8	x5	MR1-100
13-02-2021 13:43:10	5,46	13,88	1306	11	3	992	25,0	50,0	319,8	1292	60,7	x5	MR1-100
13-02-2021 13:43:11	5,27	13,90	1302	11	1	992	25,0	50,0	321,9	1288	60,8	x5	MR1-100
13-02-2021 13:43:12	5,27	13,91	1301	10	0	992	25,0	50,0	324,6	1287	60,8	x5	MR1-100
13-02-2021 13:43:13	5,27	13,88	1304	10	0	992	25,0	50,0	324,6	1290	61,0	x5	MR1-100
13-02-2021 13:43:14	5,27	13,82	1311	10	0	992	25,0	50,0	324,9	1297	61,2	x5	MR1-100



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13-02-2021 13:43:15	5,27	13,77	1317	10	0	992	25,0	50,0	324,9	1303	61,4	x5	MR1-100
13-02-2021 13:43:16	5,27	13,77	1317	10	0	992	25,0	50,0	324,4	1303	61,4	x5	MR1-100
13-02-2021 13:43:17	5,42	13,70	1328	10	0	992	25,0	50,0	324,4	1313	61,7	x5	MR1-100
13-02-2021 13:43:18	5,42	13,69	1331	10	0	992	25,0	50,0	324,3	1316	61,7	x5	MR1-100
13-02-2021 13:43:19	5,42	13,70	1333	10	0	992	25,0	50,0	324,3	1319	61,8	x5	MR1-100
13-02-2021 13:43:20	5,42	13,72	1334	11	0	992	25,0	50,0	324,0	1320	61,8	x5	MR1-100
13-02-2021 13:43:21	5,42	13,73	1331	11	0	992	25,0	50,0	327,0	1317	61,7	x5	MR1-100
13-02-2021 13:43:22	5,42	13,75	1326	11	0	992	25,0	50,0	327,0	1312	61,6	x5	MR1-100
13-02-2021 13:43:23	5,39	13,75	1324	11	0	992	25,0	50,0	329,1	1310	61,6	x5	MR1-100
13-02-2021 13:43:24	5,39	13,72	1326	11	0	992	25,0	50,0	329,1	1311	61,6	x5	MR1-100
13-02-2021 13:43:25	5,39	13,65	1332	10	0	992	25,0	50,0	327,5	1317	61,7	x5	MR1-100
13-02-2021 13:43:26	5,39	13,65	1341	10	0	992	25,0	50,0	327,5	1326	61,9	x5	MR1-100
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13-02-2021 13:43:38	5,37	13,68	1344	11	0	992	25,0	50,0	321,9	1329	62,3	x5	MR1-100
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13-02-2021 13:44:07	5,51	13,64	1345	11	0	992	25,0	50,0	321,4	1330	61,9	x5	MR1-100
13-02-2021 13:44:08	5,51	13,67	1343	11	0	992	25,0	50,0	321,4	1328	62,2	x5	MR1-100


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13-02-2021 13:44:09	5,51	13,67	1343	11	0	992	25,0	50,0	319,7	1328	62,2	x5	MR1-100
13-02-2021 13:44:10	5,51	13,70	1344	11	0	992	25,0	50,0	320,4	1329	62,3	x5	MR1-100
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13-02-2021 13:44:12	5,33	13,79	1330	11	0	992	25,0	50,0	320,4	1315	62,1	x5	MR1-100
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13-02-2021 13:44:15	5,33	13,83	1314	11	0	992	25,0	50,0	321,2	1299	61,7	x5	MR1-100
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13-02-2021 13:44:20	5,35	13,75	1325	10	0	992	25,0	50,0	324,1	1310	61,8	x5	MR1-100
13-02-2021 13:44:21	5,35	13,69	1330	10	0	992	25,0	50,0	326,6	1315	61,9	x5	MR1-100
13-02-2021 13:44:22	5,35	13,69	1330	10	0	992	25,0	50,0	326,6	1315	61,9	x5	MR1-100
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13-02-2021 13:45:01	5,44	13,73	1334	10	0	992	25,0	50,0	325,8	1319	61,9	x5	MR1-100
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13-02-2021 13:45:03	5,40	13,72	1336	11	0	992	25,0	50,0	330,6	1322	61,9	x5	MR1-100
13-02-2021 13:45:04	5,40	13,74	1338	11	0	992	25,0	50,0	330,6	1324	61,9	x5	MR1-100
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13-02-2021 13:45:08	5,58	13,54	1359	11	0	992	25,0	50,0	324,9	1344	62,1	x5	MR1-100
13-02-2021 13:45:09	5,58	13,58	1359	11	0	992	25,0	50,0	324,9	1345	62,2	x5	MR1-100
13-02-2021 13:45:10	5,58	13,66	1351	11	0	992	25,0	50,0	325,9	1337	61,9	x5	MR1-100
13-02-2021 13:45:11	5,58	13,66	1351	11	0	992	25,0	50,0	327,4	1337	61,9	x5	MR1-100
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13-02-2021 13:45:14	5,47	13,66	1340	11	0	992	25,0	50,0	327,1	1326	61,5	x5	MR1-100
13-02-2021 13:45:15	5,47	13,66	1340	11	0	992	25,0	50,0	324,4	1326	61,5	x5	MR1-100
13-02-2021 13:45:16	5,47	13,60	1343	10	0	992	25,0	50,0	324,4	1329	61,6	x5	MR1-100
13-02-2021 13:45:17	5,47	13,56	1348	11	0	992	25,0	50,0	324,2	1334	61,7	x5	MR1-100
13-02-2021 13:45:18	5,47	13,59	1347	11	0	992	25,0	50,0	323,6	1333	61,7	x5	MR1-100
13-02-2021 13:45:19	5,47	13,68	1343	11	0	992	25,0	50,0	323,6	1329	61,7	x5	MR1-100
13-02-2021 13:45:20	5,44	13,68	1343	11	0	992	25,0	50,0	323,2	1329	61,6	x5	MR1-100
13-02-2021 13:45:21	5,44	13,70	1340	10	0	992	25,0	50,0	323,2	1326	61,5	x5	MR1-100
13-02-2021 13:45:22	5,44	13,71	1336	11	0	992	25,0	50,0	322,1	1322	61,4	x5	MR1-100
13-02-2021 13:45:23	5,44	13,77	1334	10	0	992	25,0	50,0	320,9	1320	61,2	x5	MR1-100

Average at 85%	5,43	13,68	1320,82	10,85	15,52	992,00	25,00	50,00	325,25	1305,88	61,71		
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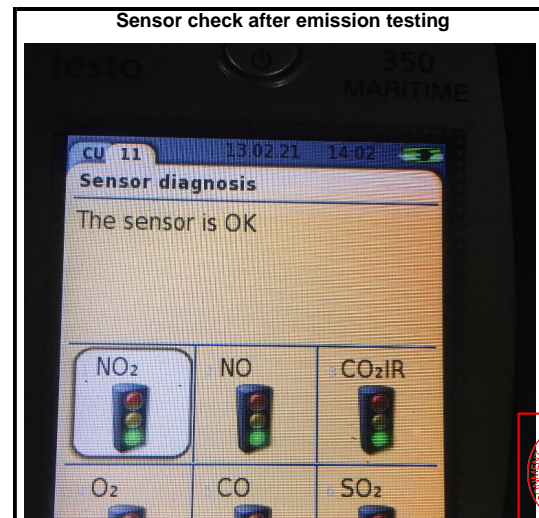
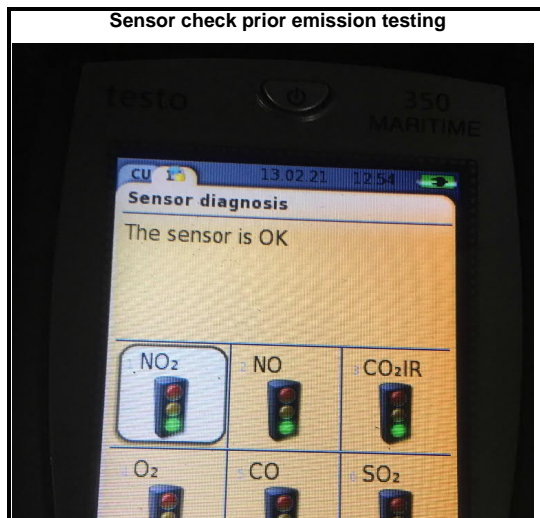
13.02.2021

Load – 85%


Fuel Cntr. 12:58 - 1267450 Cntr. 13:59 - 1269070

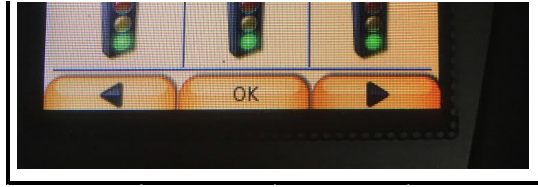
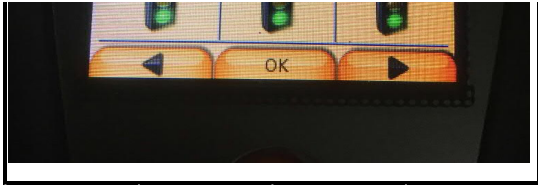
Humidity – 20.3

Temperature in E.R. – 16.7°C



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Calibration gas certificates

Report number: END-2021-001

Report date: 13-02-2021

Certificate Nitrogen Dioxide 500 ppm



Linde Gas Benelux B.V.  
Kanaalweg 4e  
6951 KJ DIEREN

## HiQ® Certificate.

Page 1 of 1

Order number: 103900616715/01  
 Cylinder number: 2037551  
 Cylinder owner: Customer Cylinder  
 Cylinder volume [l]: 10

---

**CERTIFICATE OF ANALYSIS Class 1**  
DIN EN ISO 6141

Components	Nominal value	Analytical value	rel. uncertainty in % 1
NITROGEN DIOXIDE	500 ppm	507 ppm	± 5
OXYGEN	1 %	0,982 %	± 5
NITROGEN	bal		

Indications in percent and ppm are to be interpreted as ideal parts per volume. All indications of volume are related to STP (1013 mbar; 273.15K)


1) expressed as the expanded measurement uncertainty (coverage factor: k=2)

Pressure [15°C]: 150 bar	Min. storage temperature: from 10°C a 40°C
Contents: 1500l	Min. pressure of utilization: 5% real content
Stability: 24 months	Rec. usage temperature: 10°C - 30°C
Valve outlet: RU4 VA	Net weight [kg]: 1.72
Order: 315844571/000020	
Order N°: NL2 363 8101956247/2020	

---

Date of issue: 07/01/2021      Person in charge: Beatriz Franco

This certificate was automatically generated after thorough check and is valid without signature.  
 Linde Gas España, S.A.U. - Pol. Rubí Sur / Avda. Antoni Gaudí, 151 - 08191 Rubí (Barcelona).  
 Telf.: +34 93 4762400 Fax: +34 937025764 www.abello-linde-sa.es



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Certificate for Carbon Monoxide 3000 ppm

Linde Gas Benelux B.V.

Page 1 of 1

Kanaalweg 4e  
6951 KJ DIEREN

Order number:: 103000617762/01  
Cylinder number: 25859  
Cylinder owner: Customer Cylinder  
Cylinder volume [l]: 10

**CERTIFICATE OF ANALYSIS Class 1**  
DIN EN ISO 6141

Components	Nominal value	Analytical value	rel. uncertainty in % 1
CARBON MONOXIDE	3000 ppm	2952 ppm	+ 2
NITROGEN	bal.		

Indications in percent and ppm are to be interpreted as ideal parts per volume. All indications of volume are related to STP (1013 mbar; 273.15K)

1) expressed as the expanded measurement uncertainty (coverage factor k=2)

Pressure [15°C]:	150 bar	Min. storage temperature:	from 10°C a 40°C
Contents:	1500L	Min pressure of utilization:	5% real content
Stability:	36 months	Rec. usage temperature:	10°C - 30°C
Valve outlet:	LU4 MS	Net weight [Kg]:	1.724
Order:	315845286/000020		
Order N°:	NL2 377 8101957487/2020		

Date of issue: 18/01/2021

Person in charge: Isabel Lopez

This certificate was automatically generated after thorough check and is valid without signature.  
Linde Gas España, S.A.U. - Pol. Rubí Sur / Avda. Antoni Gaudí, 151 - 08191 Rubí (Barcelona).  
Telf.: +34 934767400 Fax: +34 932075764 www.abello-linde-sa.es



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28052019/DNV  
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Certificate for Nitric Oxide 3000 ppm

Linde Gas Benelux B.V.

Page 1 of 1

Kanaalweg 4e  
6951 KJ DIEREN

Order number.: 103000618297/01  
Cylinder number: 3635623  
Cylinder owner: Customer Cylinder  
Cylinder volume [l]: 10

**CERTIFICATE OF ANALYSIS Class 1**  
**DIN EN ISO 6141**

Components	Nominal value	Analytical value	rel. uncertainty in % 1
NITRIC OXIDE	3000 ppm	3000 ppm	± 2
NOx	3000 ppm	3001 ppm	± 2
NITROGEN	bal.		

Indications in percent and ppm are to be interpreted as ideal parts per volume. All indications of volume are related to STP (1013 mbar; 273.15K)

1) expressed as the expanded measurement uncertainty (coverage factor k=2)

Pressure [15°C]:	150 bar	Min. storage temperature:	from 10°C a 40°C
Contents:	1500L	Min pressure of utilization:	5% real content
Stability:	24months	Rec. usage temperature:	10°C - 30°C
Valve outlet:	RU4 VA	Net weight [Kg]:	1.72
Order:	315844565/000020		
Order N°:	NL2 362 8101956318/2020		

Date of issue: 18/01/2021

Person in charge: Beatriz Franco

This certificate was automatically generated after thorough check and is valid without signature.  
Linde Gas España, S.A.U. - Pol. Rubí Sur / Avda. Antoni Gaudí, 151 - 08191 Rubí (Barcelona).  
Telf.: +34 934767400 Fax: +34 932075764 www.abello-linde-sa.es



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BDN 12-12-2020



GoodFuels Marine  
De Lairestraat 180-V  
1075 HM Amsterdam  
The Netherlands  
Tel: +31 (0) 20 8000 238

**BUNKER STATEMENT & DELIVERY NOTE #20201212-1**

Declaration for the supply of mineral oils used for propulsion of ships or as supplies on board of ships under exemption of excise duties (art. 19 Uitvoeringsbesluitaccijns)

Name of commander/master: V. Buluygin

Declares as owner, or on behalf of the following owner:

Name: Samskip Multimodal B.V.

Address: Waalhaven Oostzijde 81, 3087BM

City: Rotterdam

Country: The Netherlands

to have procured on board, mineral oils exempt from excise duties for propulsion or as supplies on board of the vessel mentioned below:

Name of vessel: Samskip Endeavour

Voyage destination\*: Sea (\*select applicable destination)

IMO / Registration number: 9436290

Nationality: Cyprus

Delivery location: Rotterdam RST Zuid, The Netherlands

Next port: Dublin

Remarks:

	Date	Time
Arrival bunker barge	12-12-2020	15:00
Start bunkering	12-12-2020	16:05
End bunkering	12-12-2020	17:05
Departure bunker barge	12-12-2020	18:00

Sealed sample numbers:	
Vessel	2553601
Bunker Barge (1)	2553602
Bunker Barge (2)	2553603
Marpol	2553604

Samples/sampling procedure applied:

Samples taken and supplied in presence of captain, chief engineer or another vessel's representative

Sampling Method:  Continuous drip sample  Composite sample  Spot sample

Grade of Oil:	<b>GoodFuels MR1-100</b>
Metric Tons	151,865
Liters 15 °C	164,802
Liters °C	
Density at 15 °C (kg/m³)	921.5
Viscosity at 40 °C (cSt)	20.5
Flash Point [°C]	164
Total Sulphur Content [mass %]	0.0128
Water content [mass %]	0.0316

GoodFuels Marine declares to have supplied the above-mentioned amount, exempt from excise duties, on board of the above-mentioned vessel. The oil is supplied in conformity with regulation 18.3 of annex VI Marpol 73/78. The Sulphur content does not exceed:

- 3.50 % m/m as per the limit value in regulation 14.1 of Marpol Annex VI
- 0.50 % m/m as per the limit value in regulation 14.1 of Marpol Annex VI
- 0.10 % m/m as per the limit value in regulation 14.4 of Marpol Annex VI
- The purchaser's specified limit value of % m/m

Name bunker barge / Truck license plate: Maria Peymano

Registration number: 04808700

Signature captain bunker barge / Truck driver:

Signature and Name Master/Chief Engineer receiving vessel:



Place & date of delivery (see above) Rotterdam, 12-12-2020



BDN 15-01-2021



GoodFuels Marine  
De Lairessestraat 180-V  
1075 HM Amsterdam  
The Netherlands  
Tel: +31 (0) 85 8000 238

**BUNKER STATEMENT & DELIVERY NOTE #20211401-1**

Declaration for the supply of mineral oils used for propulsion of ships or as supplies on board of ships under exemption of excise duties (art. 19 Uitvoeringsbesluitaccijn)

Name of commander/master:

Declares as owner, or on behalf of the following owner:

Name: **Samskip Multimodal B.V.**

Address: **Waalhaven Oostzijde 81, 3087BM**

City: **Rotterdam**

Country: **The Netherlands**

to have procured on board, mineral oils exempt from excise duties for propulsion or as supplies on board of the vessel mentioned below:

Name of vessel: **Samskip Endeavour**

Voyage destination\*: **Sea** (\*select applicable destination)

IMO / Registration number: **9436290**

Nationality: **Cyprus**

Delivery location: **Rotterdam RST Zuid, The netherlands**

Next port:

Remarks:

	Date	Time
Arrival bunker barge	15-1-2021	12:45
Start bunkering	15-1-2021	13:30
End bunkering	15-1-2021	15:00
Departure bunker barge	15-1-2021	15:15

Sealed sample numbers:	
Vessel	2553761
Bunker Barge (1)	2553762
Bunker Barge (2)	2553763
Marpol	2553764

Samples/sampling procedure applied:

Samples taken and supplied in presence of captain, chief engineer or another vessel's representative

Sampling Method:  Continuous drip sample  Composite sample  Spot sample

Grade of Oil:	<b>GoodFuels MR1-100</b>
Metric Tons	<b>302.188</b>
Liters 15 °C	<b>330.838</b>
Liters °C	
Density at 15 °C (kg/m³)	<b>913.4</b>
Viscosity at 40 °C (cSt)	<b>22.6</b>
Flash Point [°C]	<b>110</b>
Total Sulphur Content [mass %]	<b>0.0107</b>
Water content [mass %]	<b>0.0218</b>

GoodFuels Marine declares to have supplied the above-mentioned amounts, exempt from excise duties, on board of the above-mentioned vessel. The oil is supplied in conformity with regulation 18.3 of annex VI Marpol 73/78. The Sulphur content does not exceed:

- 3.50 % m/m as per the limit value in regulation 14.1 of Marpol Annex VI
- 0.50 % m/m as per the limit value in regulation 14.1 of Marpol Annex VI
- 0.10 % m/m as per the limit value in regulation 14.4 of Marpol Annex VI
- The purchaser's specified limit value of % m/m

Name bunker barge / Truck license plate: **Maria Deymann**

Registration number: **04808700**

Signature captain Bunker barge / Truck driver:

Signature and Name Master/Chief Engineer receiving vessel:

Vessel stamp:

Place & date of delivery (see above) **Rotterdam, 15-1-2021**

SeaNRG B.V. | T/A GoodFuels Marine | Amsterdam | CoC.no. 62402056 | VAT no.: NL854R03725B01 | Excise no.: NL 00740007802

**Approval No Doc No.:**  
**28052019/DNV**  
**Page 46 of 47**

BDN 29-01-2021



GoodFuels Marine  
De Laireestraat 180-V  
1075 HM Amsterdam  
The Netherlands  
Tel: +31 (0) 85 8000 138

**BUNKER STATEMENT & DELIVERY NOTE #20212901-1**

Declaration for the supply of mineral oils used for propulsion of ships or as supplies on board of ships under exemption of excise duties (art. 19 Uitvoeringsbesluiten)

Name of commander/master: **V. Bulygin**

Declares as owner, or on behalf of the following owner:

Name: **Samskip Multimodal B.V.**

Address: **Waalhaven Oostzijde 81, 3087BM**

City: **Rotterdam**

Country: **The Netherlands**

to have procured on board, mineral oils exempt from excise duties for propulsion or as supplies on board of the vessel mentioned below:

Name of vessel: **Samskip Endeavour**

Voyage destination\*: **Sea** (\*select applicable destination)

IMO / Registration number: **9436290**

Nationality: **Cyprus**

Delivery location: **Rotterdam RST Zuid, The Netherlands**

Next port: **Dublin**

Remarks:

	Date	Time
Arrival bunker barge	29-1-2021	14:30
Start bunkering	29-1-2021	15:10
End bunkering	29-1-2021	16:15
Departure bunker barge	29-1-2021	17:00

Sealed sample numbers:	
Vessel	4006062
Bunker Barge (1)	2553605
Bunker Barge (2)	2553606
Marpol	4006063

Samples/sampling procedure applied:

Samples taken and supplied in presence of captain, chief engineer or another vessel's representative

Sampling Method:  Continuous drip sample  Composite sample  Spot sample

Grade of Oil:	<b>GoodFuels MR1-100</b>
Metric Tons	292,745
Liters 15 °C	327,126
Liters °C	
Density at 15 °C (kg/m³)	894.9
Viscosity at 40 °C (cSt)	7.5
Flash Point [°C]	110
Total Sulphur Content (mass %)	0.0062
Water content (mass %)	0.0300

GoodFuels Marine declares to have supplied the above-mentioned amounts, exempt from excise duties, on board of the above-mentioned vessel. The oil is supplied in conformity with regulation 18.3 of annex VI Marpol 73/78. The Sulphur content does not exceed:

- 3.50 % m/m as per the limit value in regulation 14.1 of Marpol Annex VI
- 0.50 % m/m as per the limit value in regulation 14.1 of Marpol Annex VI
- 0.10 % m/m as per the limit value in regulation 14.4 of Marpol Annex VI
- The purchaser's specified limit value of % m/m

Name bunker barge / Freight forwarder: **Freight Forwarder Maria Deymann**

Signature captain bunker barge / Freight forwarder: **Maria Deymann**  
Paperless: **40733**

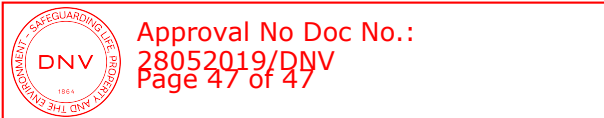
Registration number: **04808700**

Signature and Name Master/Chief Engineer receiving vessel:

Vessel stamp:



Place & date of delivery (see above): **Rotterdam, 29-1-2021**



**Annex 4 – Final report (08<sup>th</sup> March 2022)**



Nav-Tech B.V.  
Att: [Michel.Kafoe@nav-tech.nl](mailto:Michel.Kafoe@nav-tech.nl)  
Waalhaven O.z. 81  
3087 BM Rotterdam  
Netherlands

DNV GL SE Ship Classification  
Environmental Certification  
Brooktorkai 18  
20457 Hamburg  
Germany

<b>Date:</b>	<b>Our reference:</b>	<b>Your reference:</b>	<b>Job ID:</b>
2022-03-09	M-SA-ME/CKUR/ P251.2-J-69564	END-BIO-001	EIAPP20211102-13

#### Sea Trials by using Bio-Fuel (GoodFuels MDF1-100)

##### Particulars of the ship

<b>Name of ship:</b>	<b>Samskip Endeavour</b>
<b>Flag:</b>	<b>Cyprus</b>
<b>IMO Number:</b>	<b>9436290</b>
<b>Call Sign:</b>	<b>5BEY3</b>

##### Main Engine

<b>Engine maker:</b>	<b>Caterpillar Motoren GmbH &amp; Co. KG</b>
<b>Number and type of propulsion engines:</b>	<b>1 Engine, MAK 9M43C</b>
<b>Engine Serial No.:</b>	<b>68297</b>
<b>Rated Power @ Rated Speed:</b>	<b>8400 kW @ 500 rpm</b>

Dear Mr. Kafoe,

We acknowledge with thanks the receipt of your report "220307 Samskip Endeavour NOx emission calculation", Report date: 07-03-2022 which we "Used for Information" that the Bio-Fuel, GoodFuels MDF 1-100 does not cause negative impact on the NOx emission of the main engine.

The NOx emissions have been quantified on the basis of the simplified measurement method under 6.3 of the NOx Technical Code 2008.

Sincerely  
for DNV GL SE

Fabian Kock  
Head of Section Environmental Certification

Mobile: +491724044585  
Direct: +494036149-7138  
[fabian.kock@dnv.com](mailto:fabian.kock@dnv.com)

Claus Kurok  
Principal Engineer

Mobile: +491736155413  
Direct: +4940361495791  
[claus.kurok@dnv.com](mailto:claus.kurok@dnv.com)

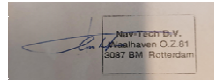
## BIO FUEL PROJECT



Particulars	
Ship's name:	Samskip Endeavour
IMO Number:	9436290
Flag:	CYPRUS
Port of Registry:	LIMMASOL
Call Sign:	5BEY3
Class Society:	DNV-GL
Build date:	2011
Length Overall:	140.62 m
Length PP:	130.00 m
Beam mid:	21.80 m
Depth:	9.50 m
Gross Tonnage:	7852
Net Tonnage:	3363
Summer Displacement:	14018.9 t
Summer Deadweight:	9300 t
Summer Draught:	7.335 m
Summer Freeboard:	2.15 m
Main Engine:	MAK 9M43C
Engine Rating:	8400 kW
RPM:	500
No. classification:	Tier I

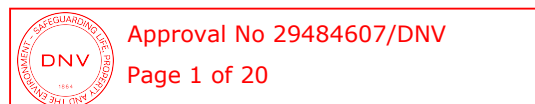
Index:	
Tab 2	Results overview
Tab 3	CO2 reduction
Tab 4	Parent Engine
Tab 5	Emission measurements MR1-100
Tab 6	Emission measurements ULSFO
Tab 7	Emission measurements MDF1-50
Tab 8	Emission measurements MR1-50
Tab 9	Emission measurements MDF1-100
Tab 10	MDF1-100 at 75% load
Tab 11	Performance record at 75% load
Tab 12	Main Engine Shop record
Tab 13	TESTO350 calibration Cert.

Verified by:  
**Michel Kafce**  
Technical Superintendent



### Nav-Tech

Rotterdam, The Netherlands  
Phone: +31 68 400 1871  
Mobile: +31 6 29700304  
Email: [Michel.Kafce@nav-tech.nl](mailto:Michel.Kafce@nav-tech.nl)  
Website: [www.samskip.com](http://www.samskip.com)





**Samskip Endeavour Co2 Reduction on BioFuel 2020/2021/2022**

Bunker date:	Type of BioFuel	Bunkered BioFuel Q'ty (in mt)	Co2eq emissions prevented (in tons)	Co2 emission when vessel would use fossil fuel (in tons)	Co2 Reduction per bunkering (in %)
12.12.2020	MR1-100	151.865	434.91	487.79	89.159%
18.01.2021	MR1-100	302.188	865.43	970.63	89.162%
29.01.2021	MR1-100	292.475	838.36	939.43	89.241%
03.03.2021	MDF1-50	124.756	357.28	801.43	44.580%
20.03.2021	MDF1-50	150.669	431.46	967.90	44.577%
14.04.2021	MDF1-50	126.741	362.96	814.18	44.580%
27.04.2021	MDF1-50	126.836	363.23	814.79	44.579%
12.05.2021	MDF1-50	128.275	358.76	824.04	43.537%
02.06.2021	MDF1-50	150.999	432.43	970.02	44.580%
23.06.2021	MR1-50	151.612	434.19	973.96	44.580%
14.07.2021	MR1-50	149.292	464.89	959.05	48.474%
09.08.2021	MR1-100	301.096	862.28	967.12	89.160%
30.08.2021	MR1-100	301.166	862.48	967.35	89.159%
17.09.2021	MR1-100	300.592	860.84	965.50	89.160%
01.10.2021	MDF1-100	303.788	869.99	975.77	89.160%
25.10.2021	MDF1-100	350.858	1,004.79	1,126.96	89.160%
13.11.2021	MDF1-100	352.984	1,010.88	1,133.78	89.160%
06.12.2021	MDF1-100	350.786	1,004.58	1,126.72	89.159%
22.01.2022	MDF1-100	292.554	837.82	939.68	89.160%
05.02.2022	MDF1-100	270.308	774.11	868.23	89.160%
04.03.2022	MDF1-100	300.096	859.42	963.91	89.160%
<b>Total bunkered BioFuel (in mt)</b>		<b>4,979.94</b>			
<b>Total Co2 Emissions when sailing on fossil fuel (in tons)</b>				<b>19,558.24</b>	
<b>Total Co2 reduction total (in tons)</b>				<b>14,291.09</b>	
<b>Average reduction of Co2 emissions total (in percentage)</b>				<b>73.069%</b>	



Approval No 29484607/DNV

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**Main Engine**  
Fuel grade

**Symbol**

EN 590

Constant
Input data
Internal actions
Output data

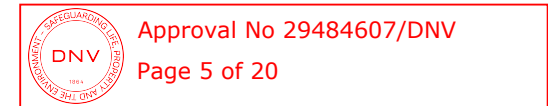
			1	2	3	5
Nominal load			25%	50%	75%	100%
Date	dd/mm/yyyy					
Start Time	hh/mm					
End Time	hh/mm					
Load	%		25	50	75	100
Rated power	kW		8400	8400	8400	8400
Power	kW		2100	4200	6300	8400
<b>Fuel Composition</b>						
Carbon	W <sub>BET</sub>	%	87.0	87.0	87.0	87.0
Hydrogen	W <sub>ALF</sub>	%	13.0	13.0	13.0	13.0
Sulphur	W <sub>GAM</sub>	%	0.1	0.1	0.1	0.1
Nitrogen	W <sub>DEL</sub>	%	0.0	0.0	0.0	0.0
Oxygen	W <sub>EPS</sub>	%	0.0	0.0	0.0	0.0
Carbon factor	f <sub>c</sub>		2.52	2.57	2.58	2.93
Fuel specific factor (dry)	f <sub>fd</sub>		-0.72	-0.72	-0.72	-0.72
Fuel specific factor (wet)	f <sub>fw</sub>		0.72	0.72	0.72	0.72
<b>Ambient</b>						
CO2 ambient	C <sub>CO2ad</sub>	%	0.03	0.03	0.03	0.03
Barometric pressure	p <sub>b</sub>	kPa	98.8	98.8	98.7	98.8
Temperature at RH measurement point	t <sub>a</sub>	°C	24.4	22.5	21.6	23.2
Temperature at RH measurement point	T <sub>a</sub>	°K	297.55	295.65	294.75	296.35
Relative humidity	R <sub>a</sub>	%	41.5	46.3	48.3	42.6
Saturation vapour pressure of the charge air	p <sub>a</sub>	kPa	3.06	2.72	2.58	2.84
Absolut humidity	H <sub>a</sub>	g/kg	8.087	8.045	7.951	7.719
<b>Measured Data</b>						
Fuel Consumption	q <sub>mif</sub>	kg/h	465.8	846.1	1234.4	1670.6
CO <sub>2</sub> (dry)	C <sub>CO2d</sub>	%	4.6	4.73	4.76	5.39
CO (dry)	C <sub>COd</sub>	ppm	34.0	17	14	34
NO (dry)	C <sub>NOd</sub>	ppm	739.0	970	1037	1081
NO <sub>2</sub> (dry)	C <sub>NO2d</sub>	ppm	0.0	0	0	0
O <sub>2</sub> (dry)	C <sub>O2d</sub>	%	14.5	13.34	14.3	13.42
SO <sub>2</sub> (dry)	C <sub>SO2d</sub>	ppm				
HC (dry)	C <sub>HCw</sub>		311	222	157	141
<b>Calculated Values</b>						
Exhaust flow rate	q <sub>mew</sub>	kg/h	22348	39796	57793	69621
Intake air flow rate (wet)	q <sub>maw</sub>	kg/h	21882	38950	56558	67950
Intake air flow rate (dry)	q <sub>mad</sub>	kg/h	21601	38452	55844	67117
Fuel sfoc		g/kWh	221.8	201.5	195.9	198.9
Wet/dry conversion factor intake air	k <sub>wa</sub>		0.99	0.99	0.99	0.99
Wet/Dry conversion factor exhaust air (NOx)	k <sub>wr1</sub>		0.96	0.96	0.96	0.95
Wet/Dry conversion factor exhaust air (other gasses)	k <sub>w2</sub>		0.01	0.01	0.01	0.01
NOx correction factor	k <sub>hd</sub>		0.96	0.96	0.97	0.96
<b>Calculated Exhaust Values</b>						
NOx density coefficient	u <sub>gas</sub>		0.001586	0.001586	0.001586	0.001586
NOx concentration (dry)	C <sub>gasd</sub>	ppm (dry)	739.0	970	1037	1081
NOx concentration (wet)	C <sub>gasw</sub>	ppm (wet)	706.5	927	991	1028
NOx emission mass flow rate	q <sub>mgas</sub>	g/h	23945.6	56347	87675	108375
Fuel SFOC		kg/ tonne fuel	51.4	66.6	71.0	64.9
NOx specific emission		g/kWh	11.4	13.42	13.92	12.90
<b>Calculated CO2 emmsions</b>						
CO2 density coefficient	u <sub>gas</sub>		15.17	15.17	15.17	15.17
CO2 concentration (dry)	C <sub>gasd</sub>	% (dry)	4.62	4.73	4.76	5.39
CO2 concentration (wet)	C <sub>gasw</sub>	% (wet)	4.42	4.52	4.55	5.12
CO2 emission mass flow rate	q <sub>mgas</sub>	g/h	1,497,331.37	2,727,770.32	3,986,317.43	5,411,651.74
CO2 specific emission		g/kWh	713.01	649.47	632.75	644.24


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Main Engine	Symbol	MR1-100															
Fuel grade		MR1-100															
		<div style="display: flex; justify-content: space-between; font-size: 8px;"> <span>Constant</span> <span>Input data</span> <span>Internal actions</span> <span>Output data</span> </div>															
Load Sequence Ref		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Nominal load																	
Date	dd/mm/yyyy	13.12.2020	14.12.2020	16.01.2021	16.01.2021	20.01.2021	27.01.2021	06.02.2021	06.02.2021	06.02.2021	10.02.2021	11.02.2021	13.02.2021	14.08.2021			
Start Time	hh/mm	21:30	05:07	20:24	09:37	21:31	09:30	16:08	14:40	13:18	09:09	09:03	09:53	11:31	09:03	09:03	09:03
End Time	hh/mm	22:35	06:14	21:05	10:24	22:14	10:38	17:12	15:44	14:23	10:13	10:07	10:54	12:31	10:07	10:07	10:07
Load	%	75	70	75	75	85	85	75	85	95	85	85	75	85	85	85	85
Rated power	kW	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400
Power	kW	5880	5880	6300	7728	7140	7560	6300	7140	7980	7560	7140	6300	6300	7140	7140	7140
<b>Fuel Composition</b>																	
Carbon	W <sub>carb</sub> %	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29	74.29
Hydrogen	W <sub>H2</sub> %	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57	11.57
Sulphur	W <sub>S</sub> %	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Nitrogen	W <sub>N</sub> %	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Oxygen	W <sub>O</sub> %	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60
Carbon factor	f <sub>c</sub>	3.11	3.15	3.04	2.99	3.00	3.04	3.03	2.96	2.88	2.92	3.32	-0.02	-0.02	-0.02	-0.02	-0.02
Fuel specific factor (dry)	f <sub>d</sub>	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56
Fuel specific factor (wet)	f <sub>w</sub>	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
<b>Ambient</b>																	
CO2 ambient	C <sub>CO2a</sub> %	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Barometric pressure	P <sub>b</sub> kPa	101.10	101.10	101.10	101.10	101.10	99.20	99.20	99.20	99.20	99.20	99.20	99.20	102.10	99.20	99.20	99.20
Temperature at RMI measurement point	T <sub>a</sub> °C	25.00	25.00	29.50	23.10	23.10	24.00	23.00	22.10	23.00	18.20	15.70	19.60	28.40	16.70	16.70	16.70
Temperature at HMI measurement point	T <sub>e</sub> °C	298.15	298.15	302.65	296.25	298.15	297.15	296.15	295.25	296.15	291.35	288.85	292.75	301.55	289.85	289.85	289.85
Relative humidity	R <sub>h</sub> %	50.00	50.00	26.80	22.40	22.40	41.20	35.60	39.10	39.50	25.30	23.20	47.70	20.30	20.30	20.30	20.30
Saturation vapour pressure of the charge air	P <sub>a</sub> kPa	3.17	3.17	4.12	2.83	2.83	3.17	2.98	2.81	2.66	2.81	2.09	1.78	2.28	3.87	1.90	1.90
Absolute humidity	H <sub>a</sub> g/kg	9.90	9.90	6.87	3.92	3.92	9.90	7.80	6.59	6.33	6.59	7.03	3.33	2.60	11.45	2.43	2.43
<b>Measured Data</b>																	
Fuel Consumption	Q <sub>ref</sub> kg/h	1379.00	1273.00	1258.00	1988.80	1470.00	1755.00	1278.00	1521.00	1809.00	1595.00	1477.40	1224.00	1280.00			
CO <sub>2</sub> (dry)	C <sub>CO2d</sub> %	5.74	5.81	5.61	5.53	5.55	5.61	5.61	5.60	5.65	5.46	5.32	5.39	6.12			
CO (dry)	C <sub>COd</sub> ppm	16.44	18.92	12.85	13.19	17.29	15.35	14.73	13.61	14.24	13.74	9.36	11.10	39.51			
NO (dry)	C <sub>NOd</sub> ppm	1416.54	1374.69	1354.17	1437.85	1287.56	1297.52	1252.86	1257.06	1265.01	1332.07	1220.74	1299.63	1213.70			
NO <sub>2</sub> (dry)	C <sub>NO2d</sub> ppm	57.85	48.13	53.67	70.08	47.59	52.90	42.67	48.67	51.92	62.48	58.15	54.21	35.37			
O <sub>2</sub> (dry)	C <sub>O2d</sub> %	13.33	13.33	13.33	13.38	13.45	13.43	13.51	13.53	13.36	17.01	13.79	13.50	13.13			
SO <sub>2</sub> (dry)	C <sub>SO2d</sub> ppm	14.80	13.83	15.95	18.45	18.45	15.25	14.73	13.72	13.95	12.29	18.82	13.55	8.49			
HC (dry)	C <sub>HCd</sub> ppm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
<b>Calculated Values</b>																	
Exhaust flow rate	Q <sub>exh</sub> kg/h	46665.58	42597.01	43359.28	69268.13	51319.31	60541.08	44024.34	52495.74	61949.83	56180.67	53276.80	43613.04	40876.57	0.00	0.00	0.00
Intake air flow rate (wet)	Q <sub>inw</sub> kg/h	45286.58	41324.01	42101.28	67279.33	49849.31	58786.08	42746.34	50974.74	60140.83	54585.67	51799.40	42389.04	39596.57	0.00	0.00	0.00
Intake air flow rate (dry)	Q <sub>ind</sub> kg/h	44577.12	40676.63	41641.08	66588.05	49068.37	58057.61	42315.41	50440.36	59468.13	54294.81	51583.44	42198.06	38880.79	0.00	0.00	0.00
Fuel sloc	g/kWh	218.89	216.50	199.68	257.35	205.88	232.14	202.86	213.03	226.69	210.98	206.92	194.29	203.17			
Wet/dry conversion factor intake air	K <sub>inw</sub>	0.98	0.98	0.99	0.99	0.98	0.99	0.99	0.99	0.99	0.99	0.99	1.00	0.98	1.00	1.00	1.00
Wet/dry conversion factor exhaust air (NOx)	K <sub>exd</sub>	0.94	0.94	0.95	0.95	0.94	0.95	0.95	0.95	0.95	0.96	0.96	0.96	0.94	#DIV/0!	#DIV/0!	#DIV/0!
Wet/dry conversion factor exhaust air (other gasses)	K <sub>exw</sub>	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.02	0.00	0.00	0.00
NOx correction factor	K <sub>nox</sub>	0.98	0.98	0.92	0.90	0.98	0.95	0.93	0.94	0.94	0.91	0.90	0.89	1.00	0.90	0.90	0.90
<b>Calculated Exhaust Values</b>																	
NOx density coefficient	U <sub>nox</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx concentration (dry)	C <sub>NOxd</sub> ppm (dry)	1474.19	1422.82	1407.84	1507.93	1335.15	1350.42	1295.53	1305.73	1316.93	1394.55	1278.89	1353.84	1249.07	0.00	0.00	0.00
NOx concentration (wet)	C <sub>NOxd</sub> ppm (wet)	1390.16	1340.93	1335.40	1438.00	1261.07	1279.05	1229.91	1239.20	1246.42	1331.91	1224.32	1294.86	1171.25	#DIV/0!	#DIV/0!	#DIV/0!
NOx emission mass flow rate	Q <sub>NOxd</sub> g/h	101321.57	89212.19	84190.91	117068.40	80157.57	80157.57	97092.00	107484.20	115874.40	107461.51	93505.81	79964.57	75740.90	#DIV/0!	#DIV/0!	#DIV/0!
Fuel SFOC	kg/tonne fuel	73.47	70.08	66.92	71.19	66.76	66.70	62.72	63.83	64.05	67.37	63.29	65.33	59.17	#DIV/0!	#DIV/0!	#DIV/0!
NOx specific emission	g/kWh	16.08	15.17	13.36	16.32	14.16	15.43	12.72	13.60	14.52	14.21	13.10	12.69	12.02	#DIV/0!	#DIV/0!	#DIV/0!
<b>Calculated CO2 emissions</b>																	
CO2 density coefficient	U <sub>CO2</sub>	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17
CO2 concentration (dry)	C <sub>CO2d</sub> % (dry)	5.74	5.81	5.61	5.53	5.55	5.61	5.60	5.65	5.46	5.32	5.39	6.12	6.12	0.00	0.00	0.00
CO2 concentration (wet)	C <sub>CO2w</sub> % (wet)	5.41	5.48	5.32	5.27	5.24	5.31	5.33	5.31	5.36	5.21	5.09	5.16	5.74	#DIV/0!	#DIV/0!	#DIV/0!
CO2 emission mass flow rate	Q <sub>CO2d</sub> g/h	3,831,828.68	3,538,311.88	3,500,152.93	5,541,447.12	4,081,005.09	4,879,972.61	3,556,861.57	4,232,397.64	5,033,526.07	4,444,326.51	4,116,197.01	3,410,726.71	3,558,567.47	#DIV/0!	#DIV/0!	#DIV/0!
CO2 specific emission	g/kWh	608.23	601.75	555.58	717.06	571.57	645.50	564.58	592.77	630.77	587.87	576.50	541.39	564.85	#DIV/0!	#DIV/0!	#DIV/0!

358.785



Main Engine		Symbol	ULSFO							
Fuel grade			ULSFO							
			Constant		Input data		Internal actions		Output data	
Load Sequence Ref			1	2	3	4	5	6		
Nominal load										
Date	dd/mm/yyyy		07.12.2020	08.12.2020	09.12.2020	11.12.2020	11.12.2020	12.12.2020		
Start Time	hh/mm		11:10	09:20	20:30	04:20	13:00	08:45		
End Time	hh/mm					05:48	14:42	10:02		
Load	%		75	80	85	75	50	75		
Rated power	kW		8400	8400	8400	8400	8400	8400		
Power	kW		6300	6720	7140	6300	4200	6300		
<b>Fuel Composition</b>										
Carbon	W <sub>BET</sub> %		87.0	87.0	87.0	87.0	87.0	87.0		
Hydrogen	W <sub>ALF</sub> %		12.5	12.5	12.5	12.5	12.5	12.5		
Sulphur	W <sub>GAM</sub> %		0.1	0.1	0.1	0.1	0.1	0.1		
Nitrogen	W <sub>DEL</sub> %		0.0	0.0	0.0	0.0	0.0	0.0		
Oxygen	W <sub>EPS</sub> %		0.1	0.1	0.1	0.1	0.1	0.1		
Carbon factor	f <sub>c</sub>		2.96	3.03	3.08	3.10	3.22	3.11		
Fuel specific factor (dry)	f <sub>fd</sub>		-0.69	-0.69	-0.69	-0.69	-0.69	-0.69		
Fuel specific factor (wet)	f <sub>fw</sub>		0.70	0.70	0.70	0.70	0.70	0.70		
<b>Ambient</b>										
CO2 ambient	C <sub>CO2ad</sub> %		0.03	0.03	0.03	0.03	0.03	0.03		
Barometric pressure	p <sub>b</sub> kPa		101.1	101.1	101.1	101.1	101.1	101.1		
Temperature at RH measurement point	t <sub>a</sub> °C		25	25	25	24.87	25	25		
Temperature at RH measurement point	T <sub>a</sub> °K		298.15	298.15	298.15	298.02	298.15	298.15		
Relative humidity	R <sub>a</sub> %		50	50	50	49.74	50	50		
Saturation vapour pressure of the charge air	p <sub>a</sub> kPa		3.17	3.17	3.17	3.14	3.17	3.17		
Absolut humidity	H <sub>a</sub> g/kg		9.898	9.898	9.898	9.768	9.898	9.898		
<b>Measured Data</b>										
Fuel Consumption	q <sub>mf</sub> kg/h		1130	1380	1400	1335	840	1340		
CO <sub>2</sub> (dry)	C <sub>CO2d</sub> %		5.5	5.59	5.69	5.72	5.95	5.75		
CO (dry)	C <sub>COd</sub> ppm		21.6	17.52	17.98	18.77	56.34	16.92		
NO (dry)	C <sub>NOd</sub> ppm		1142.9	1228.29	1245.55	1249.76	1088.29	1294.44		
NO <sub>2</sub> (dry)	C <sub>NO2d</sub> ppm		31.9	44.37	48.12	45.12	22.46	51.45		
O <sub>2</sub> (dry)	C <sub>O2d</sub> %		13.4	13.39	13.3	13.22	13.01	13.3		
SO <sub>2</sub> (dry)	C <sub>SO2d</sub> ppm		26.2	23.77	28.85	25.43	31.77	21.1		
HC (dry)	C <sub>HCw</sub>		0	0	0	0	0	0		
<b>Calculated Values</b>										
Exhaust flow rate	q <sub>mew</sub> kg/h		46585	55755	55636	52787	32006	52736		
Intake air flow rate (wet)	q <sub>maw</sub> kg/h		45455	54375	54236	51452	31166	51396		
Intake air flow rate (dry)	q <sub>mad</sub> kg/h		44743	53523	53387	50656	30678	50591		
Fuel sfoc	g/kWh		179.4	205.4	196.1	211.9	200.0	212.7		
Wet/dry conversion factor intake air	k <sub>wa</sub>		0.98	0.98	0.98	0.98	0.98	0.98		
Wet/Dry conversion factor exhaust air (NOx)	k <sub>wr1</sub>		0.95	0.95	0.95	0.95	0.94	0.95		
Wet/Dry conversion factor exhaust air (other gasses)	k <sub>w2</sub>		0.02	0.02	0.02	0.02	0.02	0.02		
NOx correction factor	k <sub>nd</sub>		0.98	0.98	0.98	0.98	0.98	0.98		
<b>Calculated Exhaust Values</b>										
NOx density coefficient	u <sub>gas</sub>		0.001586	0.001586	0.001586	0.001586	0.001586	0.001586		
NOx concentration (dry)	C <sub>gasd</sub> ppm (dry)		1174.8	1272.66	1293.67	1294.88	1110.75	1345.89		
NOx concentration (wet)	C <sub>gasw</sub> ppm (wet)		1114.3	1206	1225	1226	1050	1274		
NOx emission mass flow rate	q <sub>mgas</sub> g/h		81076.5	105018	106441	100905	52466	104915		
Fuel SFOC	kg/tonne fuel		71.7	76.1	76.0	75.6	62.5	78.3		
NOx specific emission	g/kWh		12.9	15.63	14.91	16.02	12.49	16.65		
CO <sub>2</sub> density coefficient	u <sub>gas</sub>		15.17	15.17	15.17	15.17	15.17	15.17		
CO <sub>2</sub> concentration (dry)	C <sub>gasd</sub> % (dry)		5.47	5.59	5.69	5.72	5.95	5.75		
CO <sub>2</sub> concentration (wet)	C <sub>gasw</sub> % (wet)		5.19	5.30	5.39	5.42	5.62	5.44		
CO <sub>2</sub> emission mass flow rate	q <sub>mgas</sub> g/h		3,666,512.07	4,480,319.04	4,547,188.91	4,336,922.61	2,729,747.48	4,353,529.76		
CO <sub>2</sub> specific emission	g/kWh		581.99	666.71	636.86	688.40	649.94	691.04		



Main Engine		Symbol							
Fuel grade		MDF1-50							
			<div style="display: flex; justify-content: space-around; font-size: small;"> <div style="width: 15px; height: 15px; background-color: #90EE90; border: 1px solid black;"></div> Constant  <div style="width: 15px; height: 15px; background-color: #FFDAB9; border: 1px solid black;"></div> Input data  <div style="width: 15px; height: 15px; background-color: #ADD8E6; border: 1px solid black;"></div> Internal actions  <div style="width: 15px; height: 15px; background-color: #FFD700; border: 1px solid black;"></div> Output data </div>						
Load Sequence Ref			1	2	3	4	5	6	7
Nominal load									
Date	dd/mm/yyyy		05.03.2021	05.03.2021	10.03.2021	03.04.2021	01.06.2021	04.06.2021	04.06.2021
Start Time	hh/mm		14:48	13:27	09:01	11:09	09:55	13:09	14:14
End Time	hh/mm		15:51	14:29	10:03	12:07	10:55	14:10	15:14
Load	%		75	85	75	70	80	80	90
Rated power	kW		8400	8400	8400	8400	8400	8400	8400
Power	kW		6300	7140	6300	5880	6720	6720	7560
<b>Fuel Composition</b>									
Carbon	W <sub>BET</sub> %		82.80	82.80	82.80	82.80	82.80	82.80	82.80
Hydrogen	W <sub>ALF</sub> %		12.90	12.90	12.90	12.90	12.90	12.90	12.90
Sulphur	W <sub>GAM</sub> %		0.03	0.03	0.03	0.03	0.03	0.03	0.03
Nitrogen	W <sub>DEL</sub> %		0.10	0.10	0.10	0.10	0.10	0.10	0.10
Oxygen	W <sub>EPS</sub> %		4.17	4.17	4.17	4.17	4.17	4.17	4.17
Carbon factor	f <sub>c</sub>		3.02	2.98	3.02	3.06	3.07	3.04	3.05
Fuel specific factor (dry)	f <sub>sd</sub>		-0.69	-0.69	-0.69	-0.69	-0.69	-0.69	-0.69
Fuel specific factor (wet)	f <sub>fw</sub>		0.75	0.75	0.75	0.75	0.75	0.75	0.75
<b>Ambient</b>									
CO2 ambient	C <sub>CO2ad</sub> %		0.03	0.03	0.03	0.03	0.03	0.03	0.03
Barometric pressure	P <sub>b</sub> kPa		102.60	102.60	102.60	102.60	100.90	102.20	102.10
Temperature at RH measurement point	t <sub>a</sub> °C		21.80	21.00	21.80	21.50	22.00	21.00	20.00
Temperature at RH measurement point	T <sub>a</sub> °K		294.95	294.15	294.75	294.65	295.15	294.15	293.15
Relative humidity	R <sub>a</sub> %		22.20	24.90	31.80	36.50	31.90	32.30	32.10
Saturation vapour pressure of the charge air	P <sub>a</sub> kPa		2.61	2.49	2.58	2.56	2.64	2.49	2.34
Absolute humidity	H <sub>a</sub> g/kg		3.53	3.78	5.01	5.72	5.24	4.93	4.60
<b>Measured Data</b>									
Fuel Consumption	q <sub>inf</sub> kg/h		1166.00	1440.00	1234.66	1270.00	1410.00	1410.00	1580.00
CO2 (dry)	C <sub>CO2d</sub> %		5.57	5.51	5.58	5.66	5.67	5.62	5.64
CO (dry)	C <sub>COd</sub> ppm		13.83	13.03	10.76	19.40	21.98	28.32	15.34
NO (dry)	C <sub>NOd</sub> ppm		1273.09	1302.69	1260.01	1172.03	1271.52	1261.02	1223.44
NO2 (dry)	C <sub>NO2d</sub> ppm		50.39	63.38	51.92	32.59	44.86	42.59	47.10
O2 (dry)	C <sub>O2d</sub> %		13.40	13.42	13.30	13.27	13.26	13.08	13.23
SO2 (dry)	C <sub>SO2d</sub> ppm		19.14	19.25	19.34	26.34	23.45	20.94	24.90
HC (dry)	C <sub>HcW</sub>		0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Calculated Values</b>									
Exhaust flow rate	q <sub>mew</sub> kg/h		44902.93	56029.01	47538.50	48284.50	53492.32	53911.14	60206.48
Intake air flow rate (wet)	q <sub>inaw</sub> kg/h		43736.93	54589.01	46303.84	47014.50	52082.32	52501.14	58626.48
Intake air flow rate (dry)	q <sub>inad</sub> kg/h		43489.80	54259.59	45933.62	46585.67	51647.04	52088.56	58195.60
Fuel sfoc	g/kWh		185.08	201.68	195.98	215.99	209.82	209.82	208.99
Wet/dry conversion factor intake air	k <sub>wa</sub>		0.99	0.99	0.99	0.99	0.99	0.99	0.99
Wet/Dry conversion factor exhaust air (NOx)	k <sub>wf1</sub>		0.95	0.95	0.95	0.95	0.95	0.95	0.95
Wet/Dry conversion factor exhaust air (other gasses)	k <sub>wf2</sub>		0.01	0.01	0.01	0.01	0.01	0.01	0.01
NOx correction factor	k <sub>nd</sub>		0.90	0.90	0.92	0.93	0.92	0.92	0.92
<b>Calculated Exhaust Values</b>									
NOx density coefficient	u <sub>gas</sub>		0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx concentration (dry)	C <sub>gasd</sub> ppm (dry)		1323.48	1366.07	1311.93	1204.62	1316.38	1303.61	1270.54
NOx concentration (wet)	C <sub>gassw</sub> ppm (wet)		1262.41	1303.20	1248.36	1144.17	1251.17	1240.17	1209.14
NOx emission mass flow rate	q <sub>mgas</sub> g/h		80495.72	104433.99	86423.53	81456.98	97678.89	97466.78	105992.88
Fuel SFOC	kg/ tonne fuel		69.04	72.52	70.00	64.14	69.28	69.13	67.08
NOx specific emission	g/kWh		12.78	14.63	13.72	13.85	14.54	14.50	14.02
CO2 density coefficient	u <sub>gas</sub>		15.17	15.17	15.17	15.17	15.17	15.17	15.17
CO2 concentration (dry)	C <sub>gasd</sub> % (dry)		5.57	5.51	5.58	5.66	5.67	5.62	5.64
CO2 concentration (wet)	C <sub>gassw</sub> % (wet)		5.31	5.26	5.31	5.38	5.39	5.35	5.37
CO2 emission mass flow rate	q <sub>mgas</sub> g/h		3,619,088.91	4,467,743.43	3,829,077.03	3,937,780.48	4,373,173.72	4,372,557.07	4,902,252.30
CO2 specific emission	g/kWh		574.46	625.73	607.79	669.69	650.77	650.68	648.45

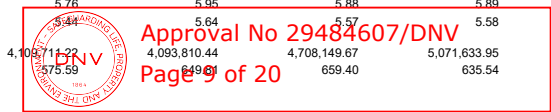
**Main Engine**

**Symbol**

	Constant
	Input data
	Internal actions
	Output data

Fuel grade		MR1-50		
Load Sequence Ref		1	2	3
Nominal load				
Date	dd/mm/yyyy	06.07.2021	06.07.2021	06.07.2021
Start Time	hh/mm	15:19	14:47	13:32
End Time	hh/mm	17:00	15:49	14:34
Load	%	75	85	95
Rated power	kW	8400	8400	8400
Power	kW	6300	7140	7980
<b>Fuel Composition</b>				
Carbon	W <sub>BET</sub> %	82.80	82.80	82.80
Hydrogen	W <sub>ALF</sub> %	12.90	12.90	12.90
Sulphur	W <sub>GAM</sub> %	0.03	0.03	0.03
Nitrogen	W <sub>DEL</sub> %	0.10	0.10	0.10
Oxygen	W <sub>EPS</sub> %	4.17	4.17	4.17
Carbon factor	f <sub>c</sub>	3.18	3.17	3.17
Fuel specific factor (dry)	f <sub>fd</sub>	-0.69	-0.69	-0.69
Fuel specific factor (wet)	f <sub>fw</sub>	0.75	0.75	0.75
<b>Ambient</b>				
CO2 ambient	C <sub>CO2ad</sub> %	0.03	0.03	0.03
Barometric pressure	P <sub>b</sub> kPa	102.10	102.10	102.10
Temperature at RH measurement point	t <sub>a</sub> °C	25.60	26.40	30.00
Temperature at KH measurement point	T <sub>a</sub> °K	298.75	299.55	303.15
Relative humidity	R <sub>a</sub> %	45.90	43.10	35.60
Saturation vapour pressure of the charge air	P <sub>a</sub> kPa	3.28	3.44	4.24
Absolut humidity	H <sub>a</sub> g/kg	9.32	9.17	9.34
<b>Measured Data</b>				
Fuel Consumption	q <sub>mf</sub> kg/h	1390.00	1550.00	1650.00
CO <sub>2</sub> (dry)	C <sub>CO2d</sub> %	5.87	5.85	5.85
CO (dry)	C <sub>COd</sub> ppm	26.80	26.83	31.70
NO (dry)	C <sub>NOd</sub> ppm	1217.64	1239.00	1255.83
NO <sub>2</sub> (dry)	C <sub>NO2d</sub> ppm	42.90	49.29	47.93
O <sub>2</sub> (dry)	C <sub>O2d</sub> %	13.17	13.19	13.07
SO <sub>2</sub> (dry)	C <sub>SO2d</sub> ppm	20.26	19.87	16.91
HC (dry)	C <sub>HCw</sub>	0.00	0.00	0.00
<b>Calculated Values</b>				
Exhaust flow rate	q <sub>mew</sub> kg/h	51267.06	57340.68	61045.52
Intake air flow rate (wet)	q <sub>maw</sub> kg/h	49877.06	55790.68	59395.52
Intake air flow rate (dry)	q <sub>mad</sub> kg/h	49140.98	54980.09	58516.64
Fuel sfoc	g/kWh	220.63	217.09	206.77
Wet/dry conversion factor intake air	K <sub>wa</sub>	0.99	0.99	0.99
Wet/Dry conversion factor exhaust air (NOx)	K <sub>wr1</sub>	0.94	0.94	0.94
Wet/Dry conversion factor exhaust air (other gasses)	K <sub>w2</sub>	0.01	0.01	0.01
NOx correction factor	K <sub>hd</sub>	0.97	0.97	0.95
<b>Calculated Exhaust Values</b>				
NOx density coefficient	U <sub>gas</sub>	0.00	0.00	0.00
NOx concentration (dry)	C <sub>gasd</sub> ppm (dry)	1260.54	1288.29	1303.76
NOx concentration (wet)	C <sub>gasw</sub> ppm (wet)	1188.41	1215.05	1229.31
NOx emission mass flow rate	q <sub>mgas</sub> g/h	93927.38	106760.26	113556.77
Fuel SFOC	kg/ tonne fuel	67.57	68.88	68.82
NOx specific emission	g/kWh	14.91	14.95	14.23
CO2 density coefficient	U <sub>gas</sub>	15.17	15.17	15.17
CO2 concentration (dry)	C <sub>gasd</sub> % (dry)	5.87	5.85	5.85
CO2 concentration (wet)	C <sub>gasw</sub> % (wet)	5.53	5.52	5.52
CO2 emission mass flow rate	q <sub>mgas</sub> g/h	4,303,980.10	4,799,385.53	5,108,077.51
CO2 specific emission	g/kWh	683.17	672.18	640.11

Main Enigne	Symbol	MDF1-100											
Fuel grade		Constant Input data Internal actions Output data											
Load Sequence Ref		1	2	3	4	5	6	7	8	9	10	11	12
Nominal load													
Date	dd/mm/yyyy	30.10.2021	29.10.2021	05.11.2021	05.11.2021	05.11.2021	05.11.2021	17.01.2022	20.01.2022	20.01.2022	05.03.2022	05.03.2022	05.03.2022
Start Time	hh:mm	00:21	11:12	08:53	10:01	11:03	13:40	13:40	08:43	10:33	09:27	11:03	13:31
End Time	hh:mm	01:10	11:58	09:44	10:51	11:53	14:30	14:30	09:45	11:37	10:25	12:08	14:34
Load	%	50	75	38	50	75	95	95	75	85	75	85	95
Rated power	kW	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400
Power	kW	4200	6300	3192	4200	6300	7980	7980	6300	7140	6300	7140	7980
<b>Fuel Composition</b>													
Carbon	W <sub>BET</sub> %	74.67	74.67	74.67	74.67	74.67	74.67	74.67	74.67	74.67	74.67	74.67	74.67
Hydrogen	W <sub>ALF</sub> %	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82
Sulphur	W <sub>GAM</sub> %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen	W <sub>DEL</sub> %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxygen	W <sub>EPS</sub> %	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50	11.50
Carbon factor	f <sub>c</sub>	3.29	3.18	2.85	3.20	3.17	3.17	3.14	3.20	3.12	3.22	3.18	3.19
Fuel specific factor (dry)	f <sub>fd</sub>	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58
Fuel specific factor (wet)	f <sub>fw</sub>	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
<b>Ambient</b>													
CO2 ambient	C <sub>CO2ad</sub> %	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Barometric pressure	P <sub>b</sub> kPa	100.10	100.10	102.40	102.40	102.40	102.40	99.00	99.00	99.00	101.80	101.80	101.80
Temperature at RH measurement point	t <sub>a</sub> °C	25.00	24.00	23.00	23.00	23.00	23.00	35.90	31.90	38.20	23.20	23.00	21.10
Temperature at RH measurement point	T <sub>a</sub> °K	298.15	297.15	296.15	296.15	296.15	296.15	309.05	305.05	311.35	296.35	296.15	294.25
Relative humidity	R <sub>a</sub> %	46.30	46.30	35.00	35.00	35.00	35.00	19.83	21.80	19.50	30.20	30.20	36.30
Saturation vapour pressure of the charge air	P <sub>a</sub> kPa	3.17	2.98	2.81	2.81	2.81	2.81	5.91	4.73	6.70	2.84	2.81	2.50
Absolut humidity	H <sub>a</sub> g/kg	9.25	8.70	6.03	6.03	6.03	6.03	7.45	6.54	8.31	4.81	5.23	5.60
<b>Measured Data</b>													
Fuel Consumption	Q <sub>mf</sub> kg/h	680.00	1280.00	450.00	650.00	1289.00	1720.00	1749.00	1298.73	1470.00	1460.00	1680.00	1810.00
CO <sub>2</sub> (dry)	C <sub>CO2d</sub> %	6.08	5.87	5.26	5.90	5.86	5.85	5.80	5.91	5.76	5.95	5.88	5.89
CO (dry)	C <sub>COd</sub> ppm	55.58	28.46	55.97	41.71	19.07	31.70	12.39	20.38	18.92	25.60	22.30	21.33
NO (dry)	C <sub>NOd</sub> ppm	1067.54	1344.01	829.34	1106.72	1382.67	1255.83	1380.79	1359.92	1380.90	1308.24	1321.68	1302.30
NO <sub>2</sub> (dry)	C <sub>NO2d</sub> ppm	22.48	37.66	18.63	28.69	48.62	47.93	65.08	49.21	65.75	46.25	53.53	59.31
O <sub>2</sub> (dry)	C <sub>O2d</sub> %	13.00	13.07	14.00	13.11	13.21	13.07	13.39	13.28	13.47	13.24	13.37	13.16
SO <sub>2</sub> (dry)	C <sub>SO2d</sub> ppm	15.30	14.45	16.30	11.76	11.85	16.91	14.44	15.99	16.03	17.08	17.09	16.27
HC (dry)	C <sub>HCd</sub> ppm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Calculated Values</b>													
Exhaust flow rate	Q <sub>mfew</sub> kg/h	21925.08	42622.47	16536.74	21483.00	42885.42	57303.79	58831.47	42892.56	49799.83	47836.44	55672.92	59909.47
Intake air flow rate (wet)	Q <sub>mfaw</sub> kg/h	21245.08	41342.47	16086.74	20833.00	41596.42	55583.79	57082.47	41593.83	48329.83	46376.44	53992.92	58099.47
Intake air flow rate (dry)	Q <sub>mfad</sub> kg/h	20933.80	40771.91	15932.29	20632.97	41197.04	55050.11	56406.79	41160.70	47692.36	46020.23	53542.97	57581.17
Fuel sfoc	g/kWh	161.90	203.17	140.98	154.76	204.60	215.54	219.17	206.15	205.88	231.75	235.29	226.82
Wet/dry conversion factor intake air	k <sub>wa</sub>	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Wet/Dry conversion factor exhaust air (NOx)	k <sub>wr1</sub>	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.94	0.95	0.95	0.95
Wet/Dry conversion factor exhaust air (other gasses)	k <sub>wr2</sub>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NOx correction factor	k <sub>nd</sub>	0.97	0.97	0.93	0.93	0.93	0.93	0.90	0.90	0.91	0.91	0.92	0.93
<b>Calculated Exhaust Values</b>													
NOx density coefficient	U <sub>gas</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx concentration (dry)	C <sub>gasd</sub> ppm (dry)	1090.02	1381.67	847.97	1135.41	1431.29	1303.76	1445.87	1409.13	1446.65	1354.49	1375.21	1361.61
NOx concentration (wet)	C <sub>gasmw</sub> ppm (wet)	1025.12	1302.87	807.18	1074.89	1355.49	1234.80	1366.94	1332.85	1366.28	1284.23	1303.80	1290.04
NOx emission mass flow rate	Q <sub>mfgas</sub> g/h	34699.45	85283.60	19658.97	34009.37	85614.00	104212.75	115001.59	81866.14	97771.85	88583.95	105473.37	113899.92
Fuel SFOC	kg/tonne fuel	51.03	66.63	43.69	52.32	66.42	60.59	65.75	63.04	66.51	60.67	62.78	62.93
NOx specific emission	g/kWh	8.26	13.54	6.16	8.10	13.59	13.06	14.41	12.99	13.69	14.06	14.77	14.27
CO <sub>2</sub> density coefficient	U <sub>gas</sub>	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17	15.17
CO <sub>2</sub> concentration (dry)	C <sub>gasd</sub> % (dry)	6.08	5.87	5.26	5.90	5.86	5.85	5.80	5.91	5.76	5.95	5.88	5.89
CO <sub>2</sub> concentration (wet)	C <sub>gasmw</sub> % (wet)	5.72	5.54	5.01	5.59	5.55	5.54	5.48	5.59	5.57	5.57	5.57	5.58
CO <sub>2</sub> emission mass flow rate	Q <sub>mfgas</sub> g/h	1,901,825.78	3,578,985.31	1,256,064.04	1,820,303.33	3,610,444.10	4,816,426.52	4,893,760.91	3,637,340.85	4,106,711.22	4,093,810.44	4,708,149.67	5,071,633.95
CO <sub>2</sub> specific emission	g/kWh	452.82	568.09	393.50	433.41	573.09	603.56	613.25	577.36	649.61	659.40	659.40	635.54



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Date	% CO2d	% O2d	ppm NOx	ppm COd	ppm SO2d	mbar pAin	°C tAin	% hAin	°C tEx	ppm NOd	ppm NO2d	Dilution factor	Fuel
05.03.2022	5.85	14.15	1184	16	126	1018	23.0	35.0	17.9	1195	32.6 x5		MD1-100
05.03.2022	5.85	14.15	1184	16	126	1018	23.0	35.0	17.9	1195	32.6 x5		MD1-100
05.03.2022	5.85	13.61	1226	19	131	1018	23.0	35.0	17.9	1234	34.7 x5		MD1-100
05.03.2022	5.85	13.54	1238	20	127	1018	23.0	35.0	18.0	1244	37.9 x5		MD1-100
05.03.2022	5.85	13.50	1248	21	126	1018	23.0	35.0	18.0	1252	39.2 x5		MD1-100
05.03.2022	5.85	13.45	1255	21	126	1018	23.0	35.0	18.0	1259	39.2 x5		MD1-100
05.03.2022	5.98	13.40	1262	22	117	1018	23.0	35.0	18.0	1266	40.2 x5		MD1-100
05.03.2022	5.98	13.36	1262	23	112	1018	23.0	35.0	18.0	1271	41.1 x5		MD1-100
05.03.2022	5.98	13.37	1272	23	108	1018	23.0	35.0	18.0	1274	42.3 x5		MD1-100
05.03.2022	5.98	13.39	1272	24	104	1018	23.0	35.0	18.0	1273	42.8 x5		MD1-100
05.03.2022	5.98	13.40	1272	24	101	1018	23.0	35.0	18.0	1273	43.1 x5		MD1-100
05.03.2022	5.87	13.42	1270	25	95	1018	23.0	35.0	18.0	1270	43.7 x5		MD1-100
05.03.2022	5.87	13.41	1270	25	92	1018	23.0	35.0	18.0	1270	43.9 x5		MD1-100
05.03.2022	5.87	13.37	1272	25	90	1018	23.0	35.0	18.0	1272	44.1 x5		MD1-100
05.03.2022	5.87	13.36	1271	25	89	1018	23.0	35.0	18.0	1271	44.2 x5		MD1-100
05.03.2022	5.87	13.38	1270	25	87	1018	23.0	35.0	18.0	1270	44.2 x5		MD1-100
05.03.2022	5.87	13.40	1270	25	84	1018	23.0	35.0	18.0	1270	44.5 x5		MD1-100
05.03.2022	5.88	13.41	1270	25	84	1018	23.0	35.0	18.0	1270	44.5 x5		MD1-100
05.03.2022	5.88	13.40	1274	25	82	1018	23.0	35.0	17.9	1274	44.6 x5		MD1-100
05.03.2022	5.88	13.38	1277	25	81	1018	23.0	35.0	17.9	1277	44.7 x5		MD1-100
05.03.2022	5.88	13.34	1283	25	79	1018	23.0	35.0	17.9	1282	44.9 x5		MD1-100
05.03.2022	5.88	13.30	1288	25	79	1018	23.0	35.0	17.9	1287	45.4 x5		MD1-100
05.03.2022	5.88	13.28	1290	26	79	1018	23.0	35.0	17.9	1289	45.5 x5		MD1-100
05.03.2022	5.96	13.27	1289	26	77	1018	23.0	35.0	18.0	1288	45.5 x5		MD1-100
05.03.2022	5.96	13.26	1285	25	76	1018	23.0	35.0	18.0	1284	45.4 x5		MD1-100
05.03.2022	5.96	13.27	1283	26	74	1018	23.0	35.0	18.0	1282	45.3 x5		MD1-100
05.03.2022	5.96	13.28	1284	26	72	1018	23.0	35.0	18.0	1283	45.3 x5		MD1-100
05.03.2022	5.96	13.29	1286	26	71	1018	23.0	35.0	18.0	1285	45.4 x5		MD1-100
05.03.2022	5.96	13.28	1286	26	70	1018	23.0	35.0	18.0	1286	45.5 x5		MD1-100
05.03.2022	5.95	13.25	1294	26	69	1018	23.0	35.0	18.0	1293	45.6 x5		MD1-100
05.03.2022	5.95	13.22	1297	26	67	1018	23.0	35.0	18.0	1296	45.8 x5		MD1-100
05.03.2022	5.95	13.21	1297	26	67	1018	23.0	35.0	18.0	1296	45.8 x5		MD1-100
05.03.2022	5.95	13.21	1303	26	66	1018	23.0	35.0	18.0	1301	46.0 x5		MD1-100
05.03.2022	5.95	13.21	1305	26	64	1018	23.0	35.0	18.0	1303	46.1 x5		MD1-100
05.03.2022	5.95	13.23	1307	26	64	1018	23.0	35.0	18.0	1305	46.2 x5		MD1-100
05.03.2022	5.96	13.24	1307	26	62	1018	23.0	35.0	18.0	1306	46.2 x5		MD1-100
05.03.2022	5.96	13.25	1305	26	62	1018	23.0	35.0	18.0	1304	46.2 x5		MD1-100
05.03.2022	5.96	13.25	1302	26	60	1018	23.0	35.0	18.0	1300	46.2 x5		MD1-100
05.03.2022	5.96	13.26	1297	27	58	1018	23.0	35.0	18.0	1295	46.2 x5		MD1-100
05.03.2022	5.96	13.27	1296	27	56	1018	23.0	35.0	18.0	1289	45.9 x5		MD1-100
05.03.2022	5.96	13.27	1288	26	54	1018	23.0	35.0	18.0	1286	45.8 x5		MD1-100
05.03.2022	5.89	13.29	1284	26	51	1018	23.0	35.0	18.0	1283	45.6 x5		MD1-100
05.03.2022	5.89	13.31	1281	26	51	1018	23.0	35.0	18.0	1279	45.6 x5		MD1-100
05.03.2022	5.89	13.32	1281	26	47	1018	23.0	35.0	18.0	1280	45.6 x5		MD1-100
05.03.2022	5.89	13.30	1282	26	47	1018	23.0	35.0	18.0	1280	45.7 x5		MD1-100
05.03.2022	5.89	13.28	1291	26	46	1018	23.0	35.0	18.0	1290	45.8 x5		MD1-100
05.03.2022	5.89	13.27	1294	26	45	1018	23.0	35.0	18.0	1293	45.9 x5		MD1-100
05.03.2022	5.89	13.27	1296	26	45	1018	23.0	35.0	18.0	1294	46.0 x5		MD1-100
05.03.2022	5.88	13.27	1298	26	44	1018	23.0	35.0	18.0	1296	46.2 x5		MD1-100
05.03.2022	5.88	13.25	1303	26	44	1018	23.0	35.0	17.9	1301	46.4 x5		MD1-100
05.03.2022	5.88	13.21	1308	26	44	1018	23.0	35.0	17.9	1306	46.4 x5		MD1-100
05.03.2022	5.88	13.18	1311	26	43	1018	23.0	35.0	18.0	1309	46.5 x5		MD1-100
05.03.2022	5.88	13.17	1309	26	43	1018	23.0	35.0	18.0	1307	46.4 x5		MD1-100
05.03.2022	5.91	13.19	1303	27	41	1018	23.0	35.0	18.1	1301	46.3 x5		MD1-100
05.03.2022	5.91	13.23	1297	27	38	1018	23.0	35.0	18.1	1295	46.3 x5		MD1-100
05.03.2022	5.91	13.26	1295	27	37	1018	23.0	35.0	18.0	1291	46.3 x5		MD1-100
05.03.2022	5.91	13.27	1292	27	35	1018	23.0	35.0	18.0	1290	46.3 x5		MD1-100
05.03.2022	5.91	13.27	1292	27	33	1018	23.0	35.0	18.0	1290	46.2 x5		MD1-100
05.03.2022	5.91	13.27	1291	27	34	1018	23.0	35.0	18.0	1289	46.2 x5		MD1-100
05.03.2022	5.91	13.26	1289	27	32	1018	23.0	35.0	18.0	1287	46.0 x5		MD1-100
05.03.2022	5.92	13.27	1286	27	30	1018	23.0	35.0	18.1	1284	46.0 x5		MD1-100
05.03.2022	5.92	13.30	1285	27	28	1018	23.0	35.0	18.0	1282	45.9 x5		MD1-100
05.03.2022	5.92	13.29	1284	27	28	1018	23.0	35.0	18.1	1284	46.0 x5		MD1-100
05.03.2022	5.92	13.25	1289	27	26	1018	23.0	35.0	18.1	1287	46.0 x5		MD1-100
05.03.2022	5.92	13.23	1293	27	26	1018	23.0	35.0	18.1	1291	46.1 x5		MD1-100
05.03.2022	5.92	13.26	1293	26	27	1018	23.0	35.0	18.0	1291	46.1 x5		MD1-100
05.03.2022	5.89	13.29	1295	26	27	1018	23.0	35.0	18.0	1290	46.2 x5		MD1-100
05.03.2022	5.89	13.30	1293	26	25	1018	23.0	35.0	18.0	1291	46.3 x5		MD1-100
05.03.2022	5.89	13.27	1295	26	25	1018	23.0	35.0	18.0	1293	46.3 x5		MD1-100
05.03.2022	5.89	13.22	1299	26	24	1018	23.0	35.0	18.0	1297	46.3 x5		MD1-100
05.03.2022	5.89	13.18	1302	27	24	1018	23.0	35.0	18.0	1300	46.4 x5		MD1-100
05.03.2022	5.89	13.18	1302	27	24	1018	23.0	35.0	18.0	1300	46.5 x5		MD1-100
05.03.2022	5.94	13.20	1300	27	24	1018	23.0	35.0	18.0	1301	46.5 x5		MD1-100
05.03.2022	5.94	13.22	1302	27	23	1018	23.0	35.0	18.0	1300	46.6 x5		MD1-100
05.03.2022	5.94	13.22	1302	27	22	1018	23.0	35.0	18.0	1300	46.6 x5		MD1-100
05.03.2022	5.94	13.21	1305	27	22	1018	23.0	35.0	18.0	1303	46.7 x5		MD1-100
05.03.2022	5.94	13.20	1305	27	21	1018	23.0	35.0	18.0	1303	46.7 x5		MD1-100
05.03.2022	5.94	13.21	1305	27	20	1018	23.0	35.0	18.0	1301	46.7 x5		MD1-100
05.03.2022	5.89	13.25	1298	26	20	1018	23.0	35.0	18.0	1296	46.6 x5		MD1-100
05.03.2022	5.89	13.27	1295	27	19	1018	23.0	35.0	18.0	1293	46.6 x5		MD1-100
05.03.2022	5.89	13.25	1296	27	17	1018	23.0	35.0	18.0	1294	46.6 x5		MD1-100
05.03.2022	5.89	13.22	1298	27	17	1018	23.0	35.0	18.0	1296	46.7 x5		MD1-100
05.03.2022	5.89	13.22	1299	26	16	1018	23.0	35.0	18.0	1297	46.6 x5		MD1-100
05.03.2022	5.89	13.25	1298	27	16	1018	23.0	35.0	18.0	1296	46.6 x5		MD1-100
05.03.2022	5.90	13.28	1297	26	14	1018	23.0	35.0	18.0	1295	46.6 x5		MD1-100
05.03.2022	5.90	13.28	1297	26	15	1018	23.0	35.0	18.0	1295	46.6 x5		MD1-100
05.03.2022	5.90	13.29	1297	26	14	1018	23.0	35.0	18.0	1295	46.6 x5		MD1-100
05.03.2022	5.90	13.29	1295	26	13	1018	23.0	35.0	18.0	1293	46.6 x5		MD1-100
05.03.2022	5.90	13.27	1295	26	13	1018	23.0	35.0	18.0	1293	46.6 x5		MD1-100
05.03.2022	5.90	13.27	1295	26	13	1018	23.0	35.0	18.0	1293	46.7 x5		MD1-100
05.03.2022	5.90	13.21	1297	26	11	1018	23.0	35.0	18.0	1295	46.8 x5		MD1-100
05.03.2022	5.95	13.20	1301	26	12	1018	23.0	35.0					



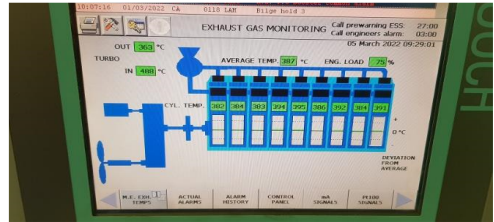

















Engineer: J. Schneider / 03.07.2009 Approved:	 J. Schneider Dipl.-Ing.
COMPAS Confidential Area DGNBET Windows / Version 2.0 / 23.02.2009	



certificaatnr.: 2201352

Kalibratiecertificaat testo 350 (v2010)

Table with 2 columns: Field (Firma naam, Plaats, Persoon, Apparaat, Controleur, Toelassing) and Value (GoedFuels, Amsterdam, J. Schürmann, etc.)

Koffie testind voor metingen aan (schets)stroomtoeren en voldoet aan de MARPOL 73/78 Annex VI, NOx Techn. Code en de MEPC (10149) en als meetstelsel goedgekeurd door de Duitse Lloyd cert. nr. 99-488-09 IH

Table with 4 columns: Omschrijving, In orde, Gerepareerd, Vervangen, Grenswaarde. Lists various components like Elektronische systeemtest, Nulvoeding, etc.

Table with 4 columns: Meetwaarde, Prof. datum, Uitslag, Omschrijving. Lists measurement results for CO, CO2, NO, NO2, SO2, etc.

De meetwaarde is afgelezen op de afleesdisplay van het meetapparaat. Het meetapparaat is getoetst naar internationale standaarden.

Paraaf uitvoerder: Dhr. A.F. Meuluro
Testo kalibreert volgens ISO 10012-richtlijn en is gecertificeerd volgens NEN-ISO 9001:2015

certificaatnr.: 2201352

Kalibratiecertificaat testo 350 (v2010)

Main calibration table with 5 columns: Meetwaarde aan kalibratie, Uitslag, Afwijking (abs.), Afwijking (RSD), Specificatie. Lists results for CO, CO2, NO, NO2, SO2, CO2-I, CO2-II, etc.

De meetwaarde is afgelezen op de afleesdisplay van het meetapparaat. Het meetapparaat is getoetst naar internationale standaarden.

Paraaf uitvoerder: Dhr. A.F. Meuluro

certificaatnr.: 2201352

Kalibratiecertificaat testo 350 (v2010)

Table with 5 columns: Meetwaarde aan kalibratie, Uitslag, Afwijking (abs.), Afwijking (RSD), Specificatie. Lists results for CO, CO2, NO, NO2, SO2, CO2-I, CO2-II, etc.

De meetwaarde is afgelezen op de afleesdisplay van het meetapparaat. Het meetapparaat is getoetst naar internationale standaarden.

Paraaf uitvoerder: Dhr. A.F. Meuluro

