

To Whom It May Concern

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Certificate of Quality

Report number : **10901/00014548.15/L/19** Submitted date : 2020-01-23
Main Object : analysis Sample submitted at : Enemed Installation
Report Date : 2020-02-08 Date received : 2020-01-23
Date of issue : 2020-02-08 Date completed : 2020-02-07
Sample object : 2 Sample number : 9370176
Sample type : Submitted
Sample submitted as : ULSD 10 ppm
Marked : Shore tank 2 running for analysis only

NAME	METHOD	UNIT	SPECS		RESULT
			Min	Max	
Density at 15 °C Q	ASTM D 4052	kg/L	0.830	0.845	0.8310
Cetane Number	ASTM D 613	-	51		55.0
Sulphur	ASTM D 2622	mass %			6.7
Flash point Q	ASTM D 93	°C	55		55.0
Cetane Index	ASTM D 4737	-	46.0		53.4
Copper Strip Corrosion (3 hrs / 50 °C) Q	ASTM D 130	-		1	1B
Micro Carbon Residue (10% bot.) Q	ASTM D 4530 / D 86	mass %		0.30	<0.1
Cold Filter Plugging Point Q	IP 309	°C		5	-7
Viscosity at 40°C	ASTM D 445	mm ² /s	2.00	4.50	2.666
Ash Q	ASTM D 482	mass %		0.01	0.001
Distillation	ASTM D 86				
Initial boiling point		°C	Report		159.3
10% Recovered		°C	Report		198.7
50% Recovered		°C	Report		268.3
90% Recovered		°C	Report		334.4
95% Recovered		°C		360	352.6
Final boiling point		°C	Report		362.0
Residue		vol %	Report		1.0
Loss		vol %	Report		0.8
Recovered at 250 °C		vol %		65	39.4
Recovered at 350 °C		vol %	85		95.2
Oxidation Stability (**)	ASTM D 2274	g/m ³		25	17
FAME (iii)	EN 14078	vol %	Nil		<0.05
Water	ASTM E 1064	mg/kg		200	45
Lubricity Q	ASTM D 6079	micron		460	422
Particulate matter	IP 440	mg/kg		24	6

All results in this report refer to the sample(s) tested as taken or submitted like specified in this Analysis report. Uncertainties, available on request, apply in the evaluation of the test results. All tests are conducted according to the latest version of the methods, unless another version is specifically indicated. Where available and for convenience purposes, the tested sample has been checked for compliance with supplied specifications, without accepting any liability. In case of dispute or concern, we refer to the interpretation of test results as defined in ASTM D3244, IP 367, ISO 4259 or GOST 33701. This report shall not be partially copied and reproduced without the written permission of the laboratory.

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NAME	METHOD	UNIT	SPECS		RESULT
			Min	Max	
P.A.H.	IP 391	mass %	11	1.4	

Test comments:

Cetane Number (ASTM D 613): Tested by Saybolt Italy SRL

Sulphur (ASTM D 2622): Analysis performed by third party lab

Lab comments:

The results are referred to the tested sample.

Q Analysis accredited by NAB-MALTA. Testing laboratory Reg No 007.

All tests are reported according to the latest method version available.

If required, estimated expanded uncertainty U with coverage factor=2 corresponding to level of probability of about 95%, can be provided.

Sampling performed according to ASTM D5842-14.

Signed by: Francois Zammit - Laboratory Manager
Issued by: Saybolt Malta Ltd
Place and date of issue: Kalafrana - 2020-02-08

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