

## To Whom It May Concern

This copy is being provided for courtesy purposes only, and does not give any person or company other than our named client a right to rely on these results.  
No warranties, express or implied, including the warranty of due diligence and care mentioned elsewhere, shall extend to any party other than such named client.



## Certificate of Quality

Report number : **10901/00013289.2/L/18** Submitted date : 2018-04-27  
Main Object : Analysis Sample submitted at : Enemed Installation  
Report Date : 2018-05-02 Date received : 2018-04-30  
Date of issue : 2018-05-02 Date completed : 2018-05-02  
Sample object : 2 Sample number : 6564539  
Sample type : Submitted  
Sample submitted as : GASOIL  
Marked : Shore tank 2 running for analysis only

NAME	METHOD	UNIT	SPECS		RESULT
			Min	Max	
Flash point Q	ASTM D 93	°C	55		60.0
Cetane Index	ASTM D 4737	-	46.0		55.6
Copper Strip Corrosion (3 hrs / 50 °C) Q	ASTM D 130	-		1	1A
Sulphur Q	ASTM D 2622	mg/kg		10	6
Density at 15 °C Q	ASTM D 4052	kg/L	0.820	0.845	0.8263
Derived Cetane Number (DCN)	ASTM D 7668	-	51		56.4
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	-10
Viscosity at 40°C	ASTM D 445	mm <sup>2</sup> /s	2.00	4.50	2.549
Ash Q	ASTM D 482	mass %		0.01	<0.001
Distillation	ASTM D 86				
Initial boiling point		°C	Report		165.2
10% Recovered		°C	Report		198.8
50% Recovered		°C	Report		269.1
90% Recovered		°C	Report		334.9
95% Recovered		°C		360	355.5
Final boiling point		°C	Report		365.0
Residue		vol %	Report		1.3
Loss		vol %	Report		0.7
Recovered at 250 °C		vol %		65	36.4
Recovered at 350 °C		vol %	85		93.9
Oxidation Stability (**)	ASTM D 2274	g/m <sup>3</sup>		25	9
FAME (iii)	EN 14078	vol %	Nil		Below 0.05
Water	ASTM E 1064	mg/kg		200	69
Lubricity Q	ASTM D 6079	micron		460	405
Particulate matter	IP 440	mg/kg		24	6

Uncertainties, available on request, apply in the evaluation of the test results. 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.

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NAME	METHOD	UNIT	SPECS		RESULT
			Min	Max	
P.A.H.	IP 391	mass %	11	3.6	

### Test comments:

Derived Cetane Number (DCN) (ASTM D 7668): Performed By Third Party Laboratory

### 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 D4057-12.

(\*) Climatically dependent specification.

(\*\*) Tested for 20hrs if FAME is above 2%vol.

(iii) 'Not detected' or 'below 0.05%' results are also acceptable.

Signed by: Clifton Friggieri - Laboratory Manager  
Issued by: Saybolt Malta Ltd  
Place and date of issue: Kalafrana - 2018-05-02

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