

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.



Report no. 10901/5616A.00.I/11
 Report date 26/Aug/2011
 Object Analysis
 Product Fuel Oil
 Location Marsaxlokk, Oil Tanking

ANALYSIS REPORT

Sample submitted as Fuel Oil
 Received Sampled by Saybolt Inspector
 Marked Product representing M/T 'Nord Fast' on departure
 Date of sampling 14/Aug/2011
 Testing completed 26/Aug/2011
 Sealed Saybolt
 Lab number 4938/11

Test	Unit	Method	Specification	Result	
				Prefix	Figure
Density at 15°C	kg/l	ASTM D4052-09	0.995 MX		0.9735
Sulphur (*)	mass%	ASTM D2622-10	0.7 MX		0.985
Flash point (Pensky Martin)	°C	ASTM D93/B-10	65 MIN		93.0
Pour point	°C	ASTM D97	30 MX		9
Ash	mass%	ASTM D482	0.10 MX		0.045
Water by distillation	vol%	ASTM D95	1.0 MX		0.20
Sediments by extraction	mass%	ASTM D473	0.15 MX		0.05
Viscosity at 50°C	cst	ASTM D445-09	400 MX		372.6
Conradson carbon residue	mass%	ASTM D189	12 MX		11.7
Ramsbottom carbon residue	mass%	Calculation	15 MX		10.5
Stability		ASTM D4740	2 MX		1
Asphaltenes	mass%	IP 143	7.0 MX		6.0
Hot filtration existent	mass%	IP 375	0.10 MX		0.04
Vanadium	ppm	ASTM D5863/B	100 MX		28
Nickel	ppm	ASTM D5863/B	Report		29
Aluminium + Silicon	ppm	IP 377	Report		17
Sodium (*)	ppm	ASTM D5863/B	40 MX		55
Carbon	mass%	ASTM D5291	Report		87.4
Hydrogen	mass%	ASTM D5291	Report		11.0
Arsenic	ug/kg	ICP	Report		190
Chromium	ppm	AAS	Report	Below	1
Nitrogen	mass%	ASTM D3228	Report		0.49
Calorific value net	cal/g	ASTM D4868	9650 MIN		9721

Precision parameters apply in the evaluation of the test results specified above. Please also refer to ASTM D3244 (except for analysis of RFG) and IP 367 with respect to the utilization of test data to determine conformance with specifications.

This report is issued in accordance with the General Terms and Conditions of Saybolt and the recipient is deemed to have full knowledge thereof.

Remarks

The results are referred to the tested sample.

An NAB-MALTA accredited testing laboratory Reg No 007. Tests accredited are :
 Density at 15 deg C by ASTM D4052-09
 Sulphur by ASTM D2622-10
 Viscosity at 50 deg C by ASTM D445-11

Estimated expanded uncertainty U with coverage factor=2, corresponding to level of probability of about 95%.
 Sampling performed according to ASTM D4057.

(*) Parameter out of prescribed specification