

CERTIFICATE OF QUALITY

VESSEL	M/T ALCMENE
CARGO	DIESEL EURO 5 EN 590 - 10 PPM
SHORE TANK NO.	M93
BL DATE	26-12-2017
BL NUMBER	659
PORT	MIDIA, ROMANIA
BERTH	9B
OPERATION	LOADING

TO WHOM IT MAY CONCERN

Properties	Min	Max	Test Method	Result
Density at 15 deg C, kg/m3		845	EN ISO 3675 EN ISO 12185	837.7
Distillation			EN ISO 3405	
pct vol rec at 250 deg C		65 PCT VOL		39.9
pct vol rec at 350 deg C	85 PCT VOL			96.2
Temp for rec of 95 pct vol, deg C		360		342.7
Viscosity at 40 deg C, cst	2	4.50	EN ISO 3104	2.482
Sulphur, ppm		10	EN ISO 20846/EN ISO 20884	8.5
Water content, % M/M		0.020	EN ISO 12937	140
Total contamination, ppm		24	EN 12662	<12
Ash, pct wt		0.01	EN ISO 6245	0.0012
Cetane index	46		EN ISO 4264	50.0
Cetane number	48		EN ISO 5165	51.5
Carbon residue on 10 pct res., pct wt		0.30	EN ISO 10370	0.04
Copper corrosion 3 hrs at 50 deg C		1b	EN ISO 2160	1b
Oxydation stability, g/m3		25	EN ISO 12205	6.3
Flash point, deg C	55		EN ISO 2719	60.0
Lubricity, corrected wear scar, microns		460	EN ISO 12156-1	369
CFPP, deg C			EN 116	
Winter		-15		-27
Summer		+5		
Polycyclic aromatic hydrocarbons, pct wt		11	EN 12916	4.8

Winter: 1st October -31st March

Summer: 1st April - 30th September

Sample Origin:

SHORE TANKS COMPOSITE BEFORE LOADING**Tests were performed in ROMPETROL LABORATORY and witnessed by GKV inspectors.**

When analysis witnessed by G.K.V. Ltd. inspector, our responsibility is solely to ensure that the analysis is conducted to standard test methods according with accepted industry practice. We are not responsible for apparatus, instrumentation and measuring devices. Reagents and solutions are accepted as prepared.

For G.K.V. Ltd.
Independent Inspectors Mr Iulian
Duțu, in Midia

G.K.V. Ltd.
INDEPENDENT CARGO INSPECTORS

Dated 26-12-2017