



PRODUCT GUARANTEED SPECIFICATIONS

Product Code:	PE-501	Version No.	01/04
Product Description:	AUTOMOTIVE DIESEL OIL	Date Issued:	31 May 2017
Industry Name:	Diesel Fuel, Marine Gas Oil, Marine Distillate Fuel	Effective Date:	01 June 2017
		Supersedes Date:	21 December 2016

TEST PROPERTIES	UNIT	TEST METHOD	SPECIFICATION
Appearance at ambient temp.	-	Visual/ ASTM D4176 P2 ⁽¹⁾	Max Haze Rating 1, no visible free water, particulates or sediments
Colour	ASTM	ASTM D1500	2.0 max.
Acid Number, Total	mg KOH/g	ASTM D664	0.25 max.
Ash Content	% mass	ASTM D482	0.01 max.
Carbon Residue on 10% Bottom	% mass	ASTM D4530	0.10 max.
Cetane Index, Calculated	-	ASTM D4737/ ASTM D976	46.0 min.
Cloud Point	°C	ASTM D2500/ ASTM D5773	<u>+14 max</u>
Copper Corrosion, 3 hrs at 100°C	-	ASTM D130	1 max.
Density at 15°C	kg/L	ASTM D1298/ ASTM D4052	0.8600 max.
Distillation, 90% recovered	°C	ASTM D86	360.0 max.
Flash Point, PMCC	°C	ASTM D93	61.5 min.
Oxidation Stability	mg/100 mL	ASTM D2274	2.5 max.
Sulphur, Total	% mass	ASTM D4294	0.05 max.
Sediments & Water ⁽²⁾	% volume	ASTM D2709	0.05 max.
Viscosity, Kinematic @ 40°C	mm ² /sec	ASTM D445 / IP71	2.000 – 4.500
Poly-Aromatics Hydrocarbon (PAH)	% mass	IP 391	11.0 max.
Conductivity (at ambient temp.)	pS/m	ASTM 2624	50 - 600
Lubricity	Microns	IP 450	460.0 max.
Gross heat of combustion	MJ/kg	ASTM D4868	Report
Net heat of combustion	MJ/kg	ASTM D4868	Report

Note/s:

(1) If haze rating is off spec, reporting of Particulates contamination (ASTM D6217) is required.

(2) or Water by Distillation (ASTM D95) and Sediments by Extraction (ASTM D473) with specifications of 0.05 % vol. max. and 0.01% by wt. max, respectively.