



ISO/IEC 17025:2017

**Jordan Petroleum Refinery CO. LTD**  
**Laboratories & Quality Control Department**



Test-116

Title: Specification For Diesel<sup>1</sup>

QS-PL 112

S.N	Characteristics		Test Method	Control Limits
1	Appearance	-	Visual inspection	Clear and Bright <sup>2</sup>
2	Density at 15 °C *	kg/m <sup>3</sup>	ASTM D4052	820.0 – 845.0
3	Distillation :*		ASTM D86	
3.1	Recovered at 250 °C	Volume %		Max. <65
3.2	Recovered at 350 °C	Volume %		Min. 85
3.3	95% Volume Recovered @	°C		Max. 370
4	Sulfur Content	Mass %	ASTM D4294	Max. 1.20
5	Flash Point*	°C	ASTM D93A	above 55.0
6	Kinematic Viscosity at 40 °C	cSt	ASTM D7042	2.000 - 4.500
7	Cold Filter Plugging Point ( CFPP )*	°C	ASTM D6371	Max. 0.0 (Summer) <sup>3</sup> Max. -10.0 (Winter)
8	Lubricity, corrected wear scar diameter (wsd 1.4) at 60 °C	µm	BS EN ISO 12156-1	Max. 460
9	Copper strip corrosion (3 h at 50 °C )	Rating	ASTM D130	Class 1
10	Carbon Residue on 10% Residue	Mass %	ASTM D4530	Max. 0.30
11	Ash Content	Mass %	ASTM D482	Max. 0.010
12	Cetane Index	-	ASTM D4737	Min. 46.0
13	Cetane Number	-	ASTM D613	Min. 51.0
14	Water Content	mg/kg	ASTM D6304	Max. 200
15	Total contamination	mg/kg	EN 12662	Max. 24
16	Polycyclic aromatic hydrocarbons	Mass %	EN 12916	Max. 8.0
17	Oxidation Stability	g/m <sup>3</sup>	ASTM D2274	Max. 25
		hrs.		Min. 20
18	Manganese Content	mg/l	EN 16576	Max. 2.0
19	Fatty acid methyl ester (FAME) content	Volume %	EN14078	Max. 7.0

<sup>1</sup> This Specification is based on Jordanian Technical Regulation for Diesel # JS 195/2016 (4<sup>th</sup> edition) dated on the 17<sup>th</sup> of August, 2016. Except Total Sulfur.

<sup>2</sup> Clear, bright and visually free from solid matter and undissolved water at ambient fuel temperature.

<sup>3</sup> Winter: from 1/11 to 30/4, Summer: from 1/5 to 31/10.

\* Accredited test by JAS-AU.