

## LEBANESE SPECIFICATIONS OF PETROLEUM PRODUCTS

### AUTOMOTIVE DIESEL OIL

Test Method		Characteristics	Requirements	
ASTM/IP	EN			
ASTM D-613	EN ISO 5165 EN 15195 EN16144	Cetane Number	Min 49.0	
ASTM D-4737	EN ISO 4264	Cetane Index	Min 46.0	
Visual Inspection		Color	Light Yellow	
ASTM D-1298 ASTM D-4052	EN ISO 3675 EN ISO 12185	Density at 15 °C, Kg/m <sup>3</sup>	820 - 860	
ASTM D-6591	EN 12916	Polycyclic Aromatic Hydrocarbon % m/m	Max 8.0	
ASTM D-5453 ASTM D-2622 ASTM D-7220 ASTM D-7039	EN ISO 20846 EN ISO 20884 EN ISO 13032	Sulfur, mg/l	Max 10.0	
ASTM D-7111	EN 16576	Manganese Content, mg/l	Max 2	
ASTM D-93	EN ISO 2719	Flash point Pensky Martens, °C	Min 55	
ASTM D-4530 ASTM D-524 <sup>1</sup> ASTM D-189	EN ISO 10370 ISO 4262 ISO 6615	Carbon Residue <sup>1</sup> (on 10% distillation residue), % m/m	Max 0.30	
ASTM D-482	EN ISO 6245	Ash % Mass	Max 0.010	
ASTM D-1744 ASTM D-6304	EN ISO 12937 ISO 6296	Water Content, mg/kg	Max 200	
IP 440	EN 12662	Total Contamination, mg/kg	Max 24	
ASTM D-130	EN ISO 2160	Copper Corrosion, 3 hrs at 50°C	No. 1	
ASTM D-7371 ASTM D-7963	EN 14078	Fatty acid methyl ester (Fame) content <sup>3</sup> , % (V/V)	Min 0 Max 7.0	
ASTM D-2274	EN ISO 12205 EN 15751	Oxidation stability, g/m <sup>3</sup> Hours	Max 25 <sup>1</sup> Min 20	
ASTM D-6079 ASTM D-7688	EN ISO 12156-1	Lubricity Corrected wear scar diameter (wsd 1.4) at 60 °C, (µm)	Max 460	
ASTM D-445	EN ISO 3104	Kinematic Viscosity at 40 °C, cSt	Min 2.000 Max 4.500	
ASTM D-86	EN ISO 3405 EN ISO 3924	Distillation at 760 mmHg	Recovered at 250 °C, % V/V	
			Recovered at 350 °C, % V/V	
			Recovered at 95% V/V, °C	
ASTM D-6371 ASTM D-4539	EN 116 EN 16329	Cold Filter Plugging Point, °C	Winter	Summer
			Max -5	Max 0

**N.B:**

Winter: 1<sup>st</sup> November - End March

Summer: 1<sup>st</sup> April - End October