

LEBANESE SPECIFICATIONS OF PETROLEUM PRODUCTS

FUEL OIL (Grade B)

PROPERTY	METHOD	ISO 8217-2017	Specifications
Total Sediment Content, % m/m	IP 390	ISO 10307-2	<0.1%
Viscosity at 50°C, mm ² /s	ASTM D-445	ISO 3104	<380
Density at 15 ^o C in Kg/m ³	ASTM D-4052	ISO 3675/ISO 12185	>991
Micro carbon residue, %m/m	ASTM D-524/ D-4530	ISO 10370	<18
Aluminum+Silicon, mg/kg	IP-501	IP-501, IP-470 or ISO 10478	<60
Sodium ^a , mg/kg	IP-501	IP-501, IP-470	<100
Ash content % mass	D-482	ISO 6245	<0.1
Vanadium, V ppm	IP 501	IP-501, IP-470 or ISO 14597	<350
CCAI	ISO 8217	see 6.3 a	<870
Water by distillation, %v/v	D-95	ISO 3733	<0.5
Pour Point, °C	D-97	ISO 3016	<30
Flash point, °C	D-93	ISO 2719	>60
Sulfur, %m/m	D-4294	ISO 8754,ISO 14596	<1
Acid Number, mgKOH/g	D-664		<2.5
Used lubricating oils (ULO): Calcium and zinc, or calcium and phosphorus, mg/kg	IP-501	IP-501, IP-470, IP 500	the fuel should be free from ULO, and shall be considered to contain ULO, when either of the following conditions is met: * calcium>30 and zinc>15 or * calcium>30 and phosphorus>15
hydrogen sulfide, mg/kg	IP 570	IP 570	<2
Heat of combustion MJ/Kg Gross	D-4868		>41
Water & Sediment, % vol	D-1796		<1
Bromine Number, gBr/100g	D-1159		<12
Ratio of Asphaltene content/ Conradson Carbon Residue	ASTMD-189 or D- 4530 /IP-143		<0.66
P-Value	ASTM D-7112 / SMS-1600		>1.5
Heptane Insoluble %m/m	D-6560		
Cleanliness rating	D-4740		<3
Paraffin Wax content, % m/m	UOP 46		<5