

Specification of Grade and Type of Fuel Oil

Our Diesel Engines have been developed to take advantage of the high energy content and generally lower cost of No 2 Diesel Fuels. Experience has shown that the Diesel Engines will also operate satisfactorily on No 1 fuels or other fuels within the following specifications.

Specified Fuel Oil Properties

Viscosity (ASTM D-445)	Centistokes 1.4 to 5.8 @ 100deg F. (30 to 45 SUS)
Cetane Number (ASTM D613)	40 Minimum except in cold weather or in service with prolonged idle, a higher Cetane number is desirable.
Sulfur Content (ASTM 0-129 or 1552)	Not to exceed 0.5 % by weight
Water and Sediment (ASTM D-1796)	Not to exceed 0.1% by weight
Carbon Residue (Ransbottom ASTM D-524or D-189)	Not to exceed 0.25% by weight on 10% residue
Flash Point (ASTM D-93)	At least 125 deg for legal temperature if higher than 125 deg F
Gravity (ASTM D-287)	30 to 42 deg. A.P.I. at 60 deg. F. (0.815 to 0.875 sp. gr.)
Pour Point (ASTM D-97)	Below lowest temperature expected.
Active Sulfur- Copper Strip Corrosion (ASTM D-130)	Not to exceed No.2 rating after 3 hours at 122 deg. F.
Ash (ASTM 0-482)	Not to exceed 0.02% by weight
Distillation (ASTM D-86)	The distillation curve should be smooth and continuous. At least 90% of the fuel should evaporate at less than 675 deg F.

Specified Lubricating Oils for Manlift Diesel Generators

SHELL	RIMULA X 15W 40
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TEXACO	URSA Super LA 15W 40
BP	VANELUS C3 15W30
TOTAL	RUBIA XT 15W 40
FINA	KAPPA TURBO SAE 15W 40
AVIA	MULTI-GRADE HDC 15W 40
MOBIL	DELUAC 1300 Super 15W40
ESSO	LUBE XD 3 + MULTI-GRADE x 15W40
ARAL	MULTI-TURBORALL 15W40
CASTROL	RX SUPER 15W40