



Diesel Engine Oil

Technical Data Sheet



LOCOMOTIVE POWER LDF3

FULLY SYNTHETIC

PRODUCT DESCRIPTION:

LOCOMOTIVE POWER LDF3 is a synthetic extra high-performance diesel engine oil designed to provide outstanding lubrication and protection to modern, high performance diesel engines used in severe on and off-highway applications. It is blended using high performance base oils which are enhanced with an advanced additive system that provides long drain intervals in modern diesel engines. It is recommended for Euro VI and previous engine models of most manufacturers.

APPLICATION:

It is suitable for use in highly rated diesel engines meeting Euro I to Euro VI emission requirements. It is suitable for engines without Particulate Filters, for some EGT engines and some engines fitted with SCR Nox reduction systems.

FEATURES & BENEFITS:

- Extra long drain engine oil.
- Full film lubrication at operating temperatures.
- Excellent low temperature flow properties for startup and cold weather use.
- Outstanding soot control.
- Exceptional engine cleanliness.
- Outstanding anti-wear, oxidation control and friction control.

PERFORMANCE LEVELS: Meets or Exceeds:

- API CF
- ACEA E7/E4
- DTFR 15B1.20/235.28
- Scania LDF-3
- DAF Extended Drain
- MAN M 3277
- Cummins CES 20077
- Renault RLD2/RXD
- MTU Type 3
- Mack EO-M Plus
- DEUTZ DQC III-10
- Volvo VDS-3
- FORD WSS-M2C212-A1
- VOITH Class B
- IVECO

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	LOCOMOTIVE POWER LDF3
Grade			10W-40
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	110.92
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	15.3
Viscosity Index (min)	ASTM D-2270	-	145
SP. Gravity @15°C/ 60°F	ASTM D-4052	g/cm ³	0.864
Flash Point (min)	ASTM D-92	°C	220
Pour Point (max)	ASTM D-97	°C	-36
TBN	ASTM D-2896	Mg KOH/g	10.4
CCS, (°C)	ASTM D-5293	m.Pa.S	<7000 (-25°C)

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil into drains or the environment. Dispose to an authorized used oil collection point. For further Information on safety guidelines please refer to MSDS available on our website locomotivelubricants.com