



Diesel Engine Oil

Technical Data Sheet



LOCOMOTIVE POWER API FA-4

FULLY SYNTHETIC

PRODUCT DESCRIPTION:

LOCOMOTIVE 5W-30 FA-4 is a premium performance fuel efficient synthetic heavy-duty diesel engine oil designed to meet and exceed industry and engine manufacturers' performance requirements in on-highway applications. It is formulated for use in newer engines with Selective Catalytic Reduction (SCR), Diesel Particulate Filters (DPF) and Exhaust Gas Recirculation (EGR) systems and offers improved fuel economy where API FA-4 SAE 5W-30 engine oils are specified. It has been developed and intensively field tested to ensure that it meets the stringent requirements of Mack, Renault and Volvo trucks and is approved against Mack EOS-5, Renault RLD-5, and Volvo VDS-5 respectively.

APPLICATION:

LOCOMOTIVE 5W-30 FA-4 is a fuel economy engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines in which API FA-4 grade and SAE 5W-30 viscosity grade are recommended. It is specifically formulated for on-highway applications, including 2017 greenhouse gas (GHG 17) compliant diesel engines with lower CO2 emissions and 2010 compliant low emission diesel engines with Selective Catalytic Reduction (SCR), with or without Diesel Particulate Filter (DPF) and Exhaust Gas Recirculation (EGR) systems calling for SAE 5W-30.

FEATURES & BENEFITS:

- Oxidation resistance, thermal stability and detergency offer high performance piston deposit control and turbocharger protection.
- Wear control, deposit and soot dispersancy helps protect cylinders, pistons, rings, and valve trains against wear and corrosion.
- Contributes to maximum vehicle service life and utilisation with minimal downtime and maintenance costs.
- Helps provide optimum emissions control system service life with minimal downtime and cleaning, reducing maintenance costs.
- Low temperature flow and pumpability properties assist rapid oil circulation minimising wear at cold temperature start-up.

PERFORMANCE LEVELS: Meets or Exceeds:

- API FA-4
- Cummins CES 20087
- Detroit Diesel DFS 93K223
- Mack EOS-5
- Daimler Truck DTFR 15C130
- Renault RLD-5
- Volvo VDS-5
- Ford WSS-M2C214-B1

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	LOCOMOTIVE POWER API FA-4
Grade			5W-30
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	68.40
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	11.6
Viscosity Index (min)	ASTM D-2270	-	166
SP. Gravity @15°C/ 60°F	ASTM D-4052	g/cm ³	0.852
Flash Point (min)	ASTM D-92	°C	234
Pour Point (max)	ASTM D-97	°C	-42
TBN	ASTM D-2896	Mg KOH/g	10
CCS, (°C)	ASTM D-5293	m.Pa.S	<6600 (-30°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 Locomotive.com