



Diesel Engine Oil

Technical Data Sheet



LOCOMOTIVE POWER API CK-4

FULLY SYNTHETIC

PRODUCT DESCRIPTION:

LOCOMOTIVE 5W-30 CK-4 is a top tier heavy-duty engine oil that helps extend engine life in the most severe on and off-highway applications while delivering outstanding performance in modern high output low-emission engines fitted with EGR, DPf, DOC and SCR - Adblue NOx reduction systems. The exceptional low temperature fluidity and pumpability in combination with the sophisticated additive system, ensures maximum engine wear performance and supports longer engine life. It is designed for on-road vehicles meeting Euro VI and off- road vehicles meeting EU stage IIIA, IIIB, IV and US Tier 4 emission standards.

APPLICATION:

It is developed for heavy-duty vehicles requiring API CK-4 specifications. It exceeds the requirements of the heavy-duty fleet such as Scania, MAN, Mercedes Benz, Cummins, Volvo, IVECO, MTU, and Caterpillar.

FEATURES & BENEFITS:

- Exceptional Soot dispersancy and wear control.
- Optimum DPf (Diesel Particulate Filter) life.
- Exceptional cold start protection.
- Excellent shear stability.
- Improved oxidation stability.
- Best-in-class engine cleanliness.

PERFORMANCE LEVELS: Meets or Exceeds:

- API CK-4
- ACEA 2022 E6/E8/E11
- Caterpillar ECF-3
- Volvo VDS-4.5
- Cummins CES 20086
- MB 15C110/228.52
- MAN M3271-1/ M3477/M3677/ M3775/M3777
- Deutz DQC IV-18 LA
- Renault RLD4
- Scania Low Ash / LDF-4
- Mack EOS 4.5
- DDC 93K222
- MTU Type 3.1

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	LOCOMOTIVE POWER API CK-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 www.locomotive.co.il