



Diesel Engine Oil

Technical Data Sheet



LOCOMOTIVE POWER API CK-4

SEMI SYNTHETIC/MINERAL

PRODUCT DESCRIPTION:

LOCOMOTIVE POWER 15W-40 CK-4 is an advanced performance low-SAPS diesel engine oil designed to provide excellent protection in both modern and older heavy-duty engines. It is formulated with advanced additives to enhance wear protection, reduce oil consumption, and maintain engine cleanliness. This oil meets the API CK-4 specification, ensuring optimal performance in demanding operating conditions and under extreme temperatures. Ideal for a wide range of diesel engines, it offers superior oxidation stability, corrosion resistance, and fuel economy benefits.

APPLICATION:

15W-40 CK-4 is ideal for use in both modern and older heavy-duty diesel engines, including those equipped with advanced emission control systems such as Diesel Particulate Filters (DPF) and Selective Catalytic Reduction (SCR). It is suitable for a variety of applications, including on-highway and off-highway vehicles, agricultural machinery, construction equipment, and industrial engines. This versatile oil delivers exceptional protection against wear, oxidation, and deposits, ensuring optimal engine performance and longevity under diverse operating conditions.

FEATURES & BENEFITS:

- Provides excellent protection against wear, oxidation, and thermal breakdown, extending engine life.
- Helps prevent soot buildup, sludge, and harmful deposits that can damage engine components.
- Works effectively with modern emission control technologies like DPF, SCR, and EGR systems.
- Offers superior oxidation stability to resist oil degradation and prolong the interval between oil changes.
- Suitable for both on-highway and off-highway diesel engines, including trucks, agricultural, and construction equipment.

PERFORMANCE LEVELS: Meets or Exceeds:

- API CK-4/SN
- CAT ECF-3
- ACEA E9/E7-16
- MB 228.31
- MTU OIL Category 2.1
- VOLVO VDS-4.5
- MACK EOS-4.5/FORD WSS -M2C171-F1
- MAN 3275/3575
- Detroit Diesel Power Guard 93K222
- Renault VI RLD-4
- CUMMINS CES 20086
- Duetz DQC III-10 LA/JASO DH-2

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	RESULT
Grade			15W-40
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	120
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	15.4
Viscosity Index (min)	ASTM D-2270	-	134
SP. Gravity @15°C/ 60°F	ASTM D-4052	g/cm ³	0.875
Flash Point (min)	ASTM D-92	°C	230
Pour Point (max)	ASTM D-97	°C	-33
TBN	ASTM D-2896	Mg KOH/g	9.6

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