



LOCOMOTIVE POWER API CK-4/SN

SYNTHETIC / SEMI SYNTHETIC

PRODUCT DESCRIPTION:

Frankol CK-4/SN is a low SAPS heavy duty engine oil that helps extend engine life in the most severe on and offhighway 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 onroad vehicles meeting Euro VI and off-road vehicles meeting Euro IV stage emission norms.

APPLICATION:

KRAFTIG X-TREM CK-4/SN is a mixed fleet motor oil recommended for four stroke diesel & petrol engines. It is formulated for engines operating under severe service & wide range of climate conditions. It is suitable for existing diesel engines due to its backwards compatibility down to API service category CJ-4.

FEATURES & BENEFITS:

- Exceptional Soot dispersancy and wear control.
- Optimum DPF (Diesel Particulate Filter) life.
- Low SAPS (Sulphated Ash, Phosphorus and Sulphur) technology.
- Designed to control aeration exceptionally.
- Excellent shear stability.
- Improved oxidation stability.

PERFORMANCE LEVELS: Meets or Exceeds:

- API CK-4/SN
- Caterpillar ECF-3
- Volvo VDS-4.5
- Cummins CES 20086
- ACEA E6/E7/E9 -16
- Deutz DQC IV-18 LA
- Renault RLD-4
- Scania Low Ash / LDF-4
- Mack EOS-4.5
- MAN M3677/M3777
- DDC 93K222
- MTU Type 3.1

TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	LOCOMOTIVE POWER CK-4/SN (SYNTHETIC / SEMI SYN)					
Grade			0W-30	0W-40	5W-30	5W-40	10W-30	10W-40
Kinematic Viscosity @ 104°F /40°C	D-7042	cSt	67.1	87.5	68.45	91.65	74.15	102
Kinematic Viscosity @ 212°F /100°C	D-7042	cSt	11.85	14.9	11.8	15	11.75	15.1
Viscosity Index (min)	D-2270	-	175	180	170	173	154	156
SP. Gravity @15°C/ 60°F	D-4052	g/cm³	0.850	0.851	0.864	0.865	0.878	0.879
Flash Point (min)	D-92	°C	234	230	234	232	236	234
Pour Point (max)	D-97	°C	-42	-42	-42	-42	-39	-39
TBN	D-2896	Mg KOH/g	9.8	9.8	9.8	9.8	9.8	9.8
CCS, (°C)	D-5293	m.Pa.S	6200 (-35°C)	6200 (-35°C)	6600 (-30°C)	6600 (-30°C)	7000 (-25°C)	7000 (-25°C)
Sulphated Ash	D-871	mass %	0.98	0.98	0.98	0.98	0.98	0.98

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