



E-FORCE MAX

SEMI SYNTHETIC / MINERAL

PRODUCT DESCRIPTION:

E-FORCE MAX is a heavy-duty engine oil that delivers superior lubrication for today's diesel and gasoline engines operating in extreme conditions. Formulated with advanced additives and synthetic base oils, it meets current API and OEM requirements for volatility and oxidation resistance. E-FORCE MAX complies with API CI-4 Plus standards, offering enhanced oxidation stability, soot control, reduced roller follower wear, and minimized aeration.

APPLICATION:

E-FORCE MAX provides demonstrated protection and performance in the latest high-power heavy-duty diesel engines from Europe, US, and Japanese manufacturers in both on-highway and off-highway applications.

FEATURES & BENEFITS:

- 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 CI-4 Plus /SL
- ACEA E7
- DTRF 15B110
- MAN M3275
- Volvo VDS-4
- Deutz DQC III-10
- MIL-PRF-2104G
- MACK EO-N Premium Plus
- Cummins CES 20081
- Renault RLD3
- DDC 93K215
- Allison C4

TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	E-FORCE MAX		
			10W-40	15W-40	15W-50
Grade					
Kinematic Viscosity @ 104°F /40°C	D7042	cSt	TBR	TBR	TBR
Kinematic Viscosity @ 212°F /100°C	D7042	cSt	15.1	15.2	19
Viscosity Index (min)	D2270	-	145	135	135
Density@15°C/ 60°F	D4052	g/cm ³	TBR	TBR	TBR
Flash Point (min)	D92	°C	220	220	220
Pour Point (max)	D97	°C	-36	-33	-33
TBN	D2896	mg KOH/g	11.5	11.5	11.5
CCS	D5293	m.Pa.S	<7000 (-25°C)	<7000 (-20°C)	<7000 (-20°C)

DISCLAIMER: The test data presented above is indicative and not a strict specification, as it may vary within acceptable production tolerances. Internal reserves the right to update or modify this test data. For the most accurate and current information, please refer to the latest version of this Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:

Continuous or repeated exposure to oil may lead to skin problems. Avoid contact with the oil. In case of contact, wash thoroughly with soap and water. Do not dispose of used oil in drains or the environment. Dispose of it at an authorized used oil collection point. For additional safety information, please refer to the MSDS available on our website at www.internal.net.

PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.