



## E-FORCE X5

### MINERAL

#### PRODUCT DESCRIPTION:

E-FORCE X5 is a high-performance, heavy-duty engine oil formulated with premium mineral base stocks and advanced additive technology. It delivers exceptional dispersancy and detergency, along with robust wear and oxidation resistance. Designed for mixed fleet applications, it is ideal for a variety of heavy-duty diesel engines and accommodates fuels across a broad range of quality standards.

#### APPLICATION:

Recommended for modern heavy-duty engines, wide range of turbo-charged or naturally aspirated diesel engines, generators, trucks, construction cars, passenger cars or mixed car group comprising diesel and gasoline cars. It is recommended for automotive diesel engine of passenger cars and light commercial vehicles where the OEM recommends API CF-4 or earlier specification.

#### FEATURES & BENEFITS:

- Fuel saving and reduces maintenance expenses for machines and engines.
- Very long oil changing period.
- Resists oil thickening and the formation of carbon, varnish and sludge deposits.
- Good viscosity control.
- Prolonged engine life.
- Safeguards the moving parts.
- Keeps engine Clean.

#### PERFORMANCE MEET OR EXCEEDS:

- API CF-4/SJ
- MB 228.2
- ACEA E2-96, A3/B3
- MTU Type-2
- MAN 3275-1
- VOLVO VDS
- MACK EO/K2
- CES 20075/74/73

#### TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	E-FORCE X5							
			15W-40	15W-50	20W-50	20W-60	25W-60	30	40	50
Grade										
Kinematic Viscosity @ 104°F /40°C	D7042	cSt	TBR	TBR	TBR	TBR	TBR	TBR	TBR	TBR
Kinematic Viscosity @ 212°F /100°C	D7042	cSt	15.3	15.2	19.8	24.2	24.0	11.2	15.5	20.2
Viscosity Index (min)	D2270	-	135	135	120	120	115	95	95	95
Density@15°C/ 60°F	D4052	g/cm <sup>3</sup>	TBR	TBR	TBR	TBR	TBR	TBR	TBR	TBR
Flash Point (min)	D92	°C	220	220	220	220	220	220	220	220
Pour Point (max)	D97	°C	-33	-33	-24	-24	-21	-9	-9	-9
TBN	D2896	mg KOH/g	9	9	9	9	9	9	9	9
CCS	D5293	m.Pa.S	<7000 (-20°C)	<7000 (-20°C)	<9500 (-15°C)	<9500 (-15°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](http://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.