



TURBO X-PLUS MINERAL

PRODUCT DESCRIPTION:

Turbo X-Plus is a high-performance engine oil that provides proven protection to diesel engines operating in severe conditions for both On and Off-highway applications. This product has been blended with highest performance base oils and fortified with an advanced additive system which assures superior control of oil thickening caused by soot buildup and high temperature oxidation. It helps achieve reduced oil consumption and wear protection.

APPLICATION:

These heavy-duty engine oils are recommended for all types of diesel and gasoline engines where the manufacturer specifies the API service CH-4/SJ. They are especially suited for use in low temperature environments where extreme pumpability properties are required. These Oils are also suitable for on-road and off-road applications, including equipment that are exposed to extreme low temperature operations. This oil is suitable for use in moderate to high Sulphur content fuel.

FEATURES & BENEFITS:

- Improved oxidation stability to minimize deposit formation.
- Higher TBN to extend protection from acids caused by combustion.
- Better protection against valve train wear.
- Improved low temperature performance.
- Potential fuel economy improvement compared to conventional CH-4 heavy duty engine oils.

API LICENSE:

- SAE 15W-40



PERFORMANCE LEVELS / MEETS OR EXCEEDS:

- API CH-4/SJ
- MB 228.3
- MAN 3275
- ACEA E7, A3/B3/B4
- VOLVO VDS-2
- Renault RLD-2
- MTU Type 2
- JASO DH1
- Mack EO-M/EO-L
- Cummins CES 20076
- DFS 93K215

TYPICAL PERFORMANCE:

PARAMETERS	ASTM	UNIT	TURBO X-PLUS (MINERAL)				
			15W-40	15W-50	20W-50	20W-60	40
Grade			15W-40	15W-50	20W-50	20W-60	40
Kinematic Viscosity @ 104°F /40°C	D-7042	cSt	114.1	109.5	174.2	201.35	151.4
Kinematic Viscosity @ 212°F /100°C	D-7042	cSt	15.3	15.2	19.6	24.1	15.5
Viscosity Index	D-2270	-	141	146	130	149	105
SP. Gravity @ 15°C/ 60°F	D-4052	g/cm ³	0.879	0.878	0.89	0.887	0.895
Flash Point (min)	D-92	°C	236	232	236	230	242
Pour Point (max)	D-97	°C	-33	-33	-24	-24	-15
TBN	D-2896	Mg KOH/g	11	11	11	11	11
CCS, (°C)	D-5293	m.Pa.S	<7000 (-20°C)	<7000 (-20°C)	<9500 (-15°C)	<9500 (-15°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 in to drains or the environment. Dispose to an authorized used oil collection point.

HEALTH & SAFETY:

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office.

PROTECT THE ENVIRONMENT:

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

STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

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