



Product Data Sheet

Nemco MS-X Plus Synthetic Blend 15W-40 Motor Oil Heavy Duty Engine Oil

DESCRIPTION

Nemco MS-X Plus Synthetic Blend 15W-40 Motor Oil is an advanced blend of high VI base oils, synthetic PAO (polyalphaolefin) base oils and a select mixture of performance additives. This high quality, synthetic blend engine oil is primarily for use in four-stroke cycle diesel engines designed to meet 2007 and later EPA on-highway exhaust emission standards. It is specially formulated to protect exhaust after-treatment devices such as diesel particulate filters (DPFs), diesel oxidation catalysts (DOCs) and selective catalytic reduction (SCR) systems. It is backward serviceable for use in pre-2007 diesel engines, and may be used in mixed fleets with both diesel and gasoline-fueled vehicles. Synthetic-Blend 15W-40 Motor Oil offers the end user improved performance and longer equipment life in fleet, construction and agriculture equipment under the most extreme conditions. In addition, MS-X Plus Synthetic-Blend 15W-40 Motor Oil provides optimum fuel economy, oil consumption control, low temperature pour point and start up.

Applications

- On-highway diesel trucks equipped with EGR and exhaust after-treatment devices to meet 2007/2010 emissions standards
- Older diesel equipment with conventional, non-EGR engines or ACERT engines
- Off-highway construction, earth moving and mining equipment
- Mixed fleets with both diesel and gasoline-fueled vehicles

Features & Benefits

- Excellent protection for newer low-emission diesel engines and older diesel engines
- Specially formulated to protect diesel exhaust after-treatment devices
- Protects against particulate filter plugging
- Excellent soot control for protection against abrasive wear and soot-induced oil thickening
- Excellent resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against rust, bearing corrosion and wear
- Good resistance to foaming and aeration



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Meets and/or exceeds

- Approved for API Service CJ-4, CI-4 with CI-4 PLUS (SAE 15W-40), CI-4, CH-4, SN
- ACEA E9-08, E7-04 (SAE 15W-40)
- Caterpillar ECF-3, ECF-2, ECF-1a
- Cummins CES 20081
- Detroit Diesel Power Guard 93K218 (SAE 15W-40), Power Guard 93K214 (SAE 15W-40), 7SE270 (4-stroke cycle engines)
- International (Navistar) diesel engines
- Mack EO-O Premium Plus (SAE 15W-40), EO-M Plus (both grades)
- Mercedes-Benz Sheet 228.31 (SAE 15W-40)
- MTU MTL 5044 Type 2.1 (SAE 15W-40)
- Volvo VDS-4, VDS-3, VDS-2 (SAE 15W-40)
- Diesel engines manufactured by OEMs not listed above, where the OEM specifies API CJ-4 engine oil

Typical Characteristics – Synthetic Blend 15W-40 Motor Oil

SAE Grade	15W-40
Density, kg/L @ 15 C	0.872
Viscosity cSt at 40°C cSt at 100°C	117 15.3
Viscosity index	139
Pour point °C (°F)	-42 (-43)
CCS Viscosity, cP -20°C	6000
MRV-TP1, cP	25,000 @ -25C
Total Base Number (TBN)	10
Sulphated Ash, wt%	0.99
Zinc, wt. %	0.121

Physical characteristics shown in the table are typical and may vary slightly.