

**Heavy Duty Diesel Engine Oil
Full SAPS – Long Drain
Technosynthese®**

TYPE OF USE

TEKMA MEGA-X 10W-40 LD is a semi-synthetic SHPD (Super High Performance Diesel) multigrade diesel engine oil designed for both on-road and off-highway applications. It provides excellent protection for engines operating under severe conditions in commercial vehicles, mining, construction, quarrying, and agriculture.

TEKMA MEGA-X 10W-40 LD offers a high TBN value for extended drain intervals.

This oil is suitable for use in turbo diesel engines, with or without EGR. It can also be used in gasoline engines and is hence perfect for mixed fleet applications.

PERFORMANCES

ACEA E4-24 oils are Ultra High Performance Diesel (UHPD) lubricants designed for use in severe duty, long-drain applications. Engines that recommend these types of lubricants are not typically fitted with advanced aftertreatment devices such as diesel particulate filters (DPFs).

ACEA E7-24 oils are Super High Performance Diesel (SHPD) lubricants providing effective control with respect to piston cleanliness and bore polishing. It is recommended for highly-rated diesel engines running under severe conditions e.g. extended drain intervals.

It is suitable for engines without particulate filters and most engines equipped with EGR.

API CI-4 oils are formulated to sustain engine durability where exhaust gas recirculation (EGR) is used and are intended for use with diesel fuels ranging in sulfur content up to 0.5% weight to meet 2004 exhaust emission standards.

Cummins CES 20078 focus on wear protection, soot handling, and extended oil drain intervals and more stringent EGR and performance demands.

Daimler DTFR 15B110 (formerly MB 228.3) is a lubricant specification designed for use in high performance medium and heavy-duty diesel engines where advanced aftertreatment systems such as Diesel Particulate Filters (DPFs) are not fitted. These vehicles would typically align with Euro IV emissions standard and prior.

We retain the right to modify the general characteristics of our products in order to offer to our customers the latest technical development.

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Daimler DTFR 15B120 (formerly MB 228.5) is a Top Tier, high TBN lubricant specification designed for use in high performance medium and heavy-duty diesel engines where advanced aftertreatment systems such as Diesel Particulate Filters (DPFs) are not fitted.

Detroit Diesel DFS93K215 is a performance specification for heavy-duty diesel engine oils. It ensures proper lubrication and performance in Detroit Diesel engines, focusing on durability and performance in severe conditions.

Deutz DQC IV-18 is a high TBN lubricant specification designed for use in high performance engines with steel pistons, closed crankcase ventilation and the highest thermal loads and piston cleanliness requirements. Most commonly this lubricant specification is used in off-highway equipment where advanced aftertreatment systems such as Diesel Particulate Filters (DPFs) are not fitted.

MAN M3277 specification is a performance standard for high-performance diesel engine oils designed to provide exceptional wear protection, thermal stability, and extended oil drain intervals.

MTU Type 3 specifies oils for MTU diesel engines with TBN: >12 mg KOH/g, formulated to provide excellent thermal stability, wear protection, and engine cleanliness under demanding operating conditions.

Volvo VDS-3 is a lubricant specification designed for use in medium and heavy-duty diesel engines where advanced aftertreatment systems such as Diesel Particulate Filters (DPFs) are not fitted. The Volvo trucks, buses and construction equipment that require this type of lubricant would typically align with Euro IV or Stage IIIA emissions standard and prior. Equals the **Mack EO-N** and **Renault Trucks RLD-2** specification.

Product characteristics have been aligned with lubricants commonly used in applications where **IVECO 18-1804 T3 E4** is specified.

RECOMMENDATIONS

Can be mixed with synthetic or mineral oils. Oil changes should be performed according to the manufacturer's recommendations. Consult your vehicle's owner's manual or contact a dealer for specific guidelines, as they vary. We also recommend the use of an oil monitoring program to optimize oil change intervals and maximize equipment protection.

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PROPERTIES

Color		Scale 3.5 (amber)
Viscosity grade	SAE J 300	10W-40
Density at 20°C (68°F)	ASTM D1298	0.867
Viscosity at 40°C (104°F)	ASTM D445	103.5 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	15.0 mm ² /s
Viscosity Index	ASTM D2270	152
Pour point	ASTM D97	-39.0 °C / -38.0 °F
TBN	ASTM D2896	12.1 mg KOH/g
Flash point	ASTM D92	233 °C / 451 °F

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STANDARDS	
ACEA	E4/E7
API	CI-4
CUMMINS	CES 20078
DEUTZ	DQC IV-18
MACK	EO-N
MAN	M 3277
MTU	Type 3
RENAULT TRUCKS	RLD-3
VOLVO	VDS-3
OEM PERFORMANCES	
DAIMLER	DTFR 15B110 (former MB 228.3)
DETROIT DIESEL	DFS93K215

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