



# TEKMA MEGA X LD 15W-40

**Lubricant for Diesel engine**

**SHPD: « Super High Performance Diesel »  
Long Drain**

**Technosynthese®**

## TYPE OF USE

Synthetic based Technosynthese® lubricant, specially developed for countries where fuel sulfur content is around 0.5% (5000 ppm) or higher.

All low emissions European, American or Japanese Diesel engines naturally aspirated or Turbocharged, in line with Euro II, Euro III, Euro IV, Euro V, fitted with EGR System (Exhaust gas re-circulation), SCR (Selective Catalytic Reduction), or older engine generation: Trucks, Bulldozers, Construction machinery, Buses, Farm machinery, Stationary engines, Boat engines...

Can be used as single lubricant in case of fleet composed of new & old generation engines.

## PERFORMANCES

**STANDARDS**                      ACEA E7 (Replaces E5 and E3)  
API CI-4 / CH-4 / CF  
JASO DH-1  
GLOBAL DHD-1

**PERFORMANCES**              ALLISON TES 439 Level  
CATERPILLAR ECF-1a, ECF-2  
CUMMINS 20076-20077-20078  
DETROIT DIESEL DDC 93K215  
DEUTZ DQC III  
MACK EO-N  
MAN M3275-1  
MB 228.3  
MTU Type 2  
RENAULT TRUCKS RLD-2  
VOLVO VDS-3

Special Long Drain (LD) lubricant designed to obtain a Total Base Number, TBN = 15 mg KOH/g allowing:

- to avoid corrosive attacks on cylinder liners when engine is burning fuel with high sulfur content above 0.5% (5000 ppm).
- to increase oil drain intervals compared to intervals usually reached by oils with same profile but with lower TBN, this without any risk for engine life time.
- dispersant and anti-oxidation properties: protection against soot build up and oil filter plugging.
- superior Anti-Wear level: bore polishing protection.
- superior detergent level: piston cleanliness and piston groove deposits control.

Anti-corrosion, Anti-rust, Anti-foam.

## **RECOMMENDATIONS**

Drain interval: refer to manufacturers' recommendations, tune to your own use (engine type, service) and to Diesel fuel sulfur content. Can be mixed with synthetic or mineral oils.

## **PROPERTIES**

Viscosity grade	SAE J 300	<b>15W-40</b>
Density at 20°C (68°F)	ASTM D1298	0.871
Viscosity at 40°C (104°F)	ASTM D445	104.5 mm <sup>2</sup> /s
Viscosity at 100°C (212°F)	ASTM D445	15.1 mm <sup>2</sup> /s
Viscosity Index	ASTM D2270	151
Flash point	ASTM D92	228°C / 442°F
Pour point	ASTM D97	-36°C / -33°F
TBN	ASTM D2896	14.9 mg KOH/g