

**MOTUL**<sup>®</sup>

# TEKMA MEGA X 15W-40

Lubricant for Heavy Duty Diesel engine

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

**Technosynthese<sup>®</sup>**

## TYPE OF USE

All low emissions European, American or Japanese heavy duty Diesel engines naturally aspirated or turbocharged, in line with Euro II, Euro III, Euro IV, Euro V fitted with EGR System (Exhaust Gas Recirculation), 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 <b>E7</b> (Replaces E5 and E3)<br>API CI-4 / CH-4  |
| APPROVALS    | CUMMINS 20071 / 20072 / 20076 / 20077 / 20078,<br>MACK EO-N, MB-Approval 228.3, RVI RLD-2, VOLVO VDS-3,<br>KAMAZ approval (for EURO 3, EURO 4, EURO 5 ecological classes) |
| PERFORMANCES | CATERPILLAR ECF-2, Global DHD-1, MAN M 3275, MTU Type II  |

Also suitable for SCANIA, IVECO, DAF... when an ACEA E3/E5 lubricant is required.

The new standard Global DHD-1 is the result of requirements defined by European = ACEA, American = API and Japanese = JASO associations.

The new API CI-4 performance ensures protection and longevity of engines fitted with EGR systems:

- dispersant and anti-oxidation properties: protection against soot build-up and oil filter clogging.
- 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 the manufacturer 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 | 0.869                    |
| Viscosity at 40°C (104°F)  | ASTM D445  | 102.8 mm <sup>2</sup> /s |
| Viscosity at 100°C (212°F) | ASTM D445  | 15 mm <sup>2</sup> /s    |
| Viscosity Index            | ASTM D2270 | 153                      |
| Flash point                | ASTM D92   | 230°C / 446°F            |
| Pour point                 | ASTM D97   | -36°C / -33°F            |
| TBN                        | ASTM D2896 | 10.5 mg KOH/g            |

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

Product specifications are not definitive from the order which is subject to our general conditions of sale and warranty. – Made in France

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