

## TEKMA MEGA+ 15W40

Mineral

### DESCRIPTION

**TEKMA MEGA+ 15W40** is a lubricant especially designed for the latest generation of trucks, buses, construction machinery, farm machinery, stationary engines, and boat engines running with low sulfur fuel ( $\leq 50$  ppm).

### APPLICATIONS

**TEKMA MEGA+ 15W-40** is dedicated to low emissions turbo Diesel direct injection engines, Euro II, Euro III, Euro IV, Euro V or Euro VI emission regulation compliant, fitted with EGR System (Exhaust Gas Re-circulation) and/or SCR (Selected Catalyst Reduction) system and with or without DPF (Diesel Particulate Filter), working in highly severe conditions of load and service, requiring an engine oil ACEA E9 "Low SAPS" with reduced content of sulfated ash ( $\leq 1.0\%$ ), phosphorus ( $\leq 0.12\%$ ) and sulfur ( $\leq 0.4\%$ ).

**TEKMA MEGA+ 15W-40** can be used as single lubricant in case of fleet composed of new & old generation engines.

### ADVANTAGES

- Enhanced anti-oxidation properties: protection against soot builds up and oil filter plugging.
- Superior protection against viscosity loss due to shear.
- Superior protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits.
- Viscosity grade at cold temperature minimizes wear at cold temperature, easy start up.
- Anti-corrosion, anti-rust, anti-foam.

## TECHNICAL CHARACTERISTICS

CHARACTERISTICS	METHOD	TEKMA MEGA+ 15W40
Viscosity grade	SAE J 300	15W-40
Density at 20°C (68°F)	ISO 12.185	0.874
Viscosity at 40°C (104°F)	ASTM D445	119.8 mm <sup>2</sup> /s
Viscosity at 100°C (212°F)	ASTM D445	15.7 mm <sup>2</sup> /s
Viscosity Index	ASTM D2270	138.0
Pour point	ASTM D97	-42.0 °C / -43.6 °F
TBN	ASTM D2896	9.9 mg KOH/g
Flash point	ASTM D92	229.0 °C / 444.2 °F

**TEKMA MEGA+ 15W40** is also suitable for IVECO, DAF...when an ACEA E3/E5 lubricant is required.

**API CK-4** performance ensures protection and longevity of engines fitted with EGR systems.

Standard **ACEA E9** is dedicated for lubricants intended for use in truck engines fitted with DPF.

Engines compliant with Euro IV, Euro V or Euro VI emission regulation are fitted with sensitive exhaust gas after treatment systems:

- Sulfur and Phosphorus inhibit catalytic converters operation and can damage catalytic components: inefficient exhaust gas treatment.
- Sulfated Ash clog diesel particulate filters: shorter DPF lifetime and engine power loss.

## STANDARDS / APPROVALS / PERFORMANCE LEVEL

**TEKMA MEGA+ 15W40** meets the following standards:

- ACEA - E7 / E9 (Replaces E5 and E3)
- API - CK-4 / SN

**TEKMA MEGA+ 15W40** received approvals from:

- MERCEDES-BENZ - MB-Approval 228.31
- RENAULT TRUCKS - RVI RLD-3
- VOLVO - VDS-4.5
- MACK - EOS 4.5

**TEKMA MEGA+ 15W40** meets or exceeds the most common specifications and OEM requirements:

- CATERPILLAR - ECF-3
- MTU - Type 2.1
- CUMMINS - CES 20086
- MAN - M 3775
- DEUTZ - DQC III-10 LA
- DETROIT DIESEL - DFS 93K222
- FORD - WSS-M2C171-F1
- DAF - Standard Drain

## RECOMMENDATIONS

Drain interval: refer to manufacturers' recommendations and tune to your own use.  
Can be mixed with synthetic or mineral oils.

## IMPORTANT NOTICE

All information and rules about health, safety and the environment are mentioned on the safety data sheet. It provides information about risks, safety procedures and first aid emergency rules. It clarifies all procedures to implement in the case of an accidental spillage, and for the disposal of the product and its effects on the environment. The safety data sheet is available on [www.motul.com](http://www.motul.com).

Our product contains natural additives which are likely to modify the colour of the concentrates without altering its performance. The specifications of our products are definite only at the time of order, and are subject to our general sale and guarantee conditions. To give our customers the latest technical developments, the general characteristics of our products may vary.