

## TEKMA FUTURA+ 10W40

Technosynthese®

### DESCRIPTION

**TEKMA FUTURA+ 10W40** is a Technosynthese® lubricant specially designed Turbo Diesel engines with DPF.

### APPLICATIONS

**TEKMA FUTURA+ 10W-40** is a lubricant especially designed for the last generation of trucks, buses, construction machinery, farm machinery, stationary engines, and boat engines running with low sulfur fuel ( $\leq 50$  ppm). 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 ( $\leq 0.4\%$ ).

### 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 when engine start up and save fuel compare to a standard viscosity 15W-40.

## TECHNICAL CHARACTERISTICS

CHARACTERISTICS	METHOD	TEKMA FUTURA+ 10W40
Viscosity grade	SAE J 300	10W-40
Density at 20°C (68°F)	ASTM D1298	0.862
Viscosity at 40°C (104°F)	ASTM D445	107.7 mm <sup>2</sup> /s
Viscosity at 100°C (212°F)	ASTM D445	15.9 mm <sup>2</sup> /s
HTHS viscosity at 150°C (302°F)	ASTM D4741	4.0 mPa.s
Viscosity Index	ASTM D2270	158.0
Pour point	ASTM D97	-42.0 °C / -44.0 °F
Sulfated Ash	ASTM D874	1.00 % weight
TBN	ASTM D2896	9.9 mg KOH/g
Flash point	ASTM D92	224.0 °C / 435.0 °F

**TEKMA FUTURA+ 10W-40** is a low SAPS Technosynthese® lubricant with API CK-4 standard. 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.

Reduced SAPS content, enhanced DPF lifetime and avoid DPF clogging.

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 FUTURA+ 10W40** meets the following standards:

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



**TEKMA FUTURA+ 10W40** received approvals from:

- MACK - EOS 4.5
- RENAULT TRUCKS - RVI RLD-3
- VOLVO - VDS-4.5

**TEKMA FUTURA+ 10W40** meets or exceeds the most common specifications and OEM requirements:

- CATERPILLAR - ECF-3
- CUMMINS - CES 20086
- DAF - Standard Drain
- DEUTZ - DQC III-10 LA
- DETROIT DIESEL - DFS 93K222
- MAN - M 3775
- MERCEDES-BENZ - MB 228.31
- MTU - Type 2.1

## 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.