

# HYPERMAX T12 FE 5W-30

**SYNTOL**  
LUBRICANTS

## HEAVY DUTY DIESEL ENGINE OIL

### PREMIUM 100% SYNTHETIC TECHNOLOGY

HIGH PERFORMANCE LOW ASH COMMERCIAL VEHICLE ENGINE OIL DEVELOPED FROM DECADES OF EXPERIENCE IN CONJUNCTION WITH ORIGINAL EQUIPMENT MANUFACTURERS.

THE USE OF OUR PROPRIETARY BASE OIL TECHNOLOGY, ALONG WITH INNOVATIVE ADDITIVE CHEMISTRY GUARANTEES LONG OIL LIFE AND PERFORMANCE WITHOUT ANY COMPROMISE OF ENGINE RELIABILITY.

#### APPLICATIONS

DESIGNED FOR SEVERE DUTY EUROPEAN, US & ASIAN ON HIGHWAY COMMERCIAL VEHICLE ENGINES WHICH MEET EURO 6, GHG17 OR US 2010 EMISSIONS REGULATIONS, INCLUDING THOSE FITTED WITH DIESEL PARTICULATE FILTER (DPF), SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM AND/OR EXHAUST GAS RECIRCULATION (EGR), WHERE PERFORMANCE SPECIFICATIONS AND VISCOSITY GRADE ARE APPROPRIATE.

DESIGNED FOR USE IN CONJUNCTION WITH ULTRA LOW SULPHUR DIESEL (ULSD) FUELS.

ALWAYS REFER TO VEHICLE HANDBOOK / OWNERS MANUAL FOR RECOMMENDED OIL SPECIFICATION & VISCOSITY GRADE BEFORE USE.

**NOTE:** DO NOT USE IN OLDER ENGINES THAT ARE NOT DESIGNED TO RUN ON ULTRA LOW VISCOSITY LUBRICANTS. THIS PRODUCT IS NOT BACKWARDS COMPATIBLE TO EARLIER VOLVO, RENAULT, MACK OR MERCEDES / DAIMLER TRUCK SPECIFICATIONS. IT IS ALSO NOT BACKWARDS COMPATIBLE TO ANY API 'C' CATEGORIES.

#### KEY FEATURES

- HIGH PERFORMANCE 100% SYNTHETIC OEM RECOGNISED TECHNOLOGY
- SPECIAL VISCOSITY MODIFIER CHEMISTRY FOR STAY-IN-VISCOSITY GRADE PERFORMANCE
- ULTRA LOW VISCOSITY TO AID FUEL ECONOMY AND REDUCE CO<sub>2</sub> EMISSIONS - UP TO 1.3% VERSUS 15W-40 DIESEL ENGINE OIL
- LOW ASH / LOW SAPS FORMULATION TO ENSURE AFTERTREATMENT DEVICE COMPATIBILITY SUCH AS DIESEL PARTICULATE FILTERS (DPF)
- VERY LOW OIL VOLATILITY SIGNIFICANTLY REDUCES OIL CONSUMPTION
- HELPS PREVENT DIRT AND SLUDGE BUILD UP TO MAINTAIN ENGINE RESPONSIVENESS, REDUCE VIBRATION AND KEEP ENGINE QUIET
- EXCELLENT OXIDATION RESISTANCE PROVIDES LONG OIL LIFE

#### PERFORMANCE SPECIFICATIONS & SYNTOL RECOMMENDATIONS

API	FA-4 / SN
ACEA	F01
CUMMINS	CES 20087
DAIMLER TRUCK / MERCEDES BENZ	DTFR15C130 / MB228.61
DETROIT DIESEL	DFS 93K223
FORD	WSS-M2C214-B1
MACK	EOS-5
RENAULT	RLD-5
VOLVO	VDS-5

#### PHYSICAL & CHEMICAL CHARACTERISTICS

PROPERTY	METHOD	UoM	TYPICAL	LIMITS
VISCOSITY GRADE	SAE J300	-	5W-30	-
RELATIVE DENSITY @ 15°C	ASTM D4052	g/cm3	0.856	-
KINEMATIC VISCOSITY @ 40°C	ASTM D445	mm <sup>2</sup> /s	59.0	-
KINEMATIC VISCOSITY @ 100°C	ASTM D445	mm <sup>2</sup> /s	9.9	9.3 < 12.5
VISCOSITY INDEX	ASTM D2270	-	156	-
POUR POINT	ASTM D97	°C	-45	-
FLASH POINT (CoC)	ASTM D92	°C	232	-
TBN – TOTAL BASE NUMBER	ASTM D2896	mgKOH/g	10.0	-
APPEARANCE	ASTM D4176-1	-	CLEAR & BRIGHT	-
COLOUR	VISUAL	-	AMBER	-