

# HYPER-MAX T12 5W-30

**SYNTOL**  
LUBRICANTS

## 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 COMMERCIAL VEHICLE ENGINES WHICH MEET EURO 6, 5, 4, 3, 2 OR US 2002 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.

### KEY FEATURES

- HIGH PERFORMANCE PREMIUM TECHNOLOGY
- LOW VISCOSITY TO AID FUEL ECONOMY
- 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
- MISCIBLE WITH ALL MINERAL & SYNTHETIC ENGINE OIL

### PERFORMANCE SPECIFICATIONS & SYNTOL RECOMMENDATIONS

API	CK-4, CJ-4, CI-4, CH-4, CG-4, CF-4, SL
ACEA	E4, E7, E8, E11 (INCL. OBSOLETE E6 & E9 SPECIFICATIONS)
JASO	DH-2-17
CATERPILLAR	ECF-3, ECF-2
CUMMINS	CES 20086, 20081
DAF	EXTENDED DRAIN, PSQL 2.1E, PSQL 2.1E LD
DETROIT DIESEL	93K222, 93K218
DEUTZ	DQC IV-10-LA, DQC IV-18-LA
IVECO	18-1804 TLS E6
LIEBHERR	LH-00-ENG LA
MACK	EOS-4.5, EO-O PREMIUM PLUS
MAN	M 3271-1, M 3477, M 3677, M 3775, M3777
MERCEDES BENZ / DAIMLER TRUCK	MB 226.9, 228.31, 228.51, 228.52 / DTFR 15C100, 15C110, 15C120
MTU	TYPE 3.1
RENAULT	RLD-4, RLD-3, RGD, RXD
SCANIA	LDF-4
VOLVO	VDS 4.5, VDS-4, VDS-3, CNG

MAY BE USED WHERE VOLVO VDS-5 IS PRESCRIBED THOUGH CHANGE INTERVAL MUST BE ADJUSTED ACCORDINGLY.

### PHYSICAL & CHEMICAL CHARACTERISTICS

PROPERTY	METHOD	UoM	TYPICAL	LIMITS
VISCOSITY GRADE	SAE J300	-	5W-30	-
RELATIVE DENSITY @ 15°C	ASTM D4052	g/cm3	0.852	-
KINEMATIC VISCOSITY @ 40°C	ASTM D445	mm2/s	69.90	-
KINEMATIC VISCOSITY @ 100°C	ASTM D445	mm2/s	11.80	9.3 < 12.5
VISCOSITY INDEX	ASTM D2270	-	167	-
POUR POINT	ASTM D97	°C	-48	-30 MAX.
FLASH POINT (CoC)	ASTM D92	°C	228	-
TBN – TOTAL BASE NUMBER	ASTM D2896	mgKOH/g	12.5	12.0 MIN.
APPEARANCE	ASTM D4176-1	-	CLEAR & BRIGHT	-
COLOUR	VISUAL	-	AMBER	-

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