

Product Code:

7104

TS-4 SHPD

Universal Truck Engine Oil

Meets the requirements:

SAE 15W-40, API CI-4 Plus, API CI-4/CH-4/SL, ACEA E7, ACEA A3/B4, JASO DH-1, GLOBAL DHD-1, MTU Type 2, CATERPILLAR ECF-2, CATERPILLAR ECF-1-a, MB 228.3, CUMMINS CES 20076/-077/-078, DETROIT DIESEL 93K215, MACK EO-N, MACK EO-M Plus, MAN M 3275-1, MB 228.1, RENAULT RLD-2, VOLVO VDS-3, IVECO 18-1804 T2 E7

Innovative all-weather mineral-synthetic (Esters + HC-synthes) motor oil for modern heavy duty and high-speed diesel engines with and without turbocharging, operated in difficult conditions. The oil complies with the Global Specification GLOBAL-DHD-1, which takes into account all the requirements of European, American and Japanese manufacturers for heavy diesel engines manufactured since 1998, operating in the most difficult conditions with increased mileage between oil changes that comply with current standards for the content of toxic substances in exhaust gases and installed on heavy vehicles (more than 3.9 tons).

Product Characteristics:

Test	Method	Unit	Result
Density at 15 °C	D 1298	kg/l	890
Viscosity at 40 °C	D 445	cSt	118.88
Viscosity at 100 °C	D 445	cSt	15.31
Viscosity index	D 2270		134
Flash point COC	D 92	°C	226
Pour point	D 97	°C	-45
Dynasmic viscosity at -20 °C	D 5293	cP(mPas)	6657
Total base no.	D 2896	mgKOH/g	10.51
Noack volatility test mass/mass	D 5800	%	10.2
Sulphate ash	D 874	(% mass)	1.20
Ignition temperature		°C	350
Mechanical impurities	D 2273	%	-



Volume:

1L	MN7104-1	20L	MN7104-20
5L	MN7104-5	60L	MN7104-60
7L	MN7104-7	208L	MN7104-DR
10L	MN7104-10	1000L	MN7104-IBC

www.mannol.de

SCT-Vertriebs GmbH

Feldstrasse 154, 22880 Wedel/Hamburg, Germany, info@sct-germany.de, tel.: +49 (0)4103 1211 0, fax: +49 (0)4103 1211 116

MANNOL®