



# RAVENOL Low Emission Truck SAE 15W-40



**Kategorie:** Truck engine oil

**Artikelnummer:** 1123100

**Viscosity:** 15W-40

**Specifications:** ACEA E11, ACEA E7, ACEA E9, API CJ-4, API SN

**Oil type:** Semi-synthetic

**Approvals:** API CJ-4, API SM, Cummins CES 20081, Detroit Diesel Corporation (DDC) DFS93K218, Mack EO-O Premium Plus, Renault VI RLD-3, TATRA TDS 30/12, VOLVO VDS-4

**Recommendations:** Caterpillar ECF-2, Caterpillar ECF-3, Chrysler MS-10902, Detroit Diesel Corporation (DDC) DFS93K214, DTFR 15C100 (MB 228.31), EURO IV, EURO V, Ford WSS-M2C171-E, Japan Ultra-Low PM Emission Diesel, JASO DH-2, John Deere JDQ-78X Oxidations Test, MAN M 3271-1, MAN M 3477, MAN M 3575, MB 228.31, MTU Typ 2.1, US EPA Tier 3 emissions regulation

**Application:** Agricultural machinery, Truck

1L | 1123100-001

5L | 1123100-005

10L | 1123100-010

20L | 1123100-020

20L | 1123100-B20

60L | 1123100-060

60L | 1123100-D60

208L | 1123100-208

208L | 1123100-D28

1000L | 1123100-700

**RAVENOL Low Emission Truck SAE 15W-40** is a Heavy Duty engine oil which fulfils API CJ-4 requirements of 2007 and is formulated with unique low SAPS high performance additives in combination with special selected base oils.

**RAVENOL Low Emission Truck SAE 15W-40** can be used in new engines and also in older models.

**RAVENOL Low Emission Truck SAE 15W-40** reduces friction, wear and fuel consumption.

**RAVENOL Low Emission Truck SAE 15W-40** improves performance, reliability and cleanliness of the engines.

**RAVENOL Low Emission Truck SAE 15W-40** can be used in diesel and petrol engines and reduces the decision with the oil choice. Lower API specifications API CI-4 PLUS, CI-4, CH-4, CG-4, CF-4 are included in API CJ-4 specification.

## Application instructions

**RAVENOL Low Emission Truck SAE 15W-40** is suitable for use in EURO 5 engines with exhaust systems and in EURO 3 and EURO 4 engines if required by the engine manufacturer.

**RAVENOL Low Emission Truck SAE 15W-40** is suitable for use in trucks with EGR (Exhaust Gas Recirculation) and SCR (Selective Catalytic Reduction) with ULSD (maximum 15 ppm sulphur) and conventional diesel (500 ppm sulphur) from Volvo, Mack, Renault, MAN, Iveco, Daimler, DAF, Caterpillar, Komatsu for DPF (Diesel Particulate Filter) as DPD (Diesel Particulate defuser) by ISUZU, MAZDA, NISSAN and DPR (Diesel Particulate active Reduction) of HINO and TOYOTA.

**RAVENOL Low Emission Truck SAE 15W-40** is also suitable for use in Nonroad Diesel Engines and in engines EU Step IIA, IIB, IV and US Tier 3, Tier 4 Interim, Tier 4 Final with Biodiesel.

## Characteristics

- Excellent protection of the engine after a cold start and under tougher conditions.
- A fast lubrication and sufficiently thick lubricant film at low temperatures is guaranteed.
- Security against formation of sludge, carbon deposits, varnish and corrosion, even under adverse conditions.
- Prevention of premature DPF (diesel particulate filter)-constipation and reduces the maintenance intervals.
- Neutrality towards sealing materials.
- A very stable and excellent viscosity behaviour.
- An excellent shear stability.
- Good detergent and dispersing properties. Protection from foaming.
- Outstanding wear and corrosion protection (even at long periods), high oxidation stability, maximum engine cleanliness.
- Extended oil change intervals and supports the behaviour at low temperatures
- Reduces deposits on the valves to improve engine protection and support to the engine power and fuel performance.

## Technical Product Data

CHARACTERISTICS	PROPERTY	DATA	AUDIT
Colour		braun	VISUELL
Sulphated Ash	%wt.	0,92	DIN 51575
tbn	mg KOH/g	8,2	ASTM D2896
Viscosity at 100 °C	mm <sup>2</sup> /s	14,5	DIN 51562-1
Viscosity at 40 °C	mm <sup>2</sup> /s	101,5	DIN 51562-1
Viscosity Index VI		148	DIN ISO 2909
CCS Viscosity at -20 °C	mPa*s	4310	ASTM D5293
Density at 20 °C	kg/m <sup>3</sup>	862,0	EN ISO 12185
Flashpoint	°C	240	DIN EN ISO 2592
Pourpoint	°C	-39	DIN ISO 3016