



GERMAN TECHNOLOGY-GERMAN INNOVATION

Service Car Technology Vertriebs GmbH Hasenkamp. 4 22880 Wedel/Hamburg Germany

QUALITY CERTIFICATE

Senfineco ActiveHD 15W-40 CI-4 / SL

Properties

Active-HD 15W-40 is an all-season multigrade engine oil. Exhaust gas turbocharging and charge air cooling place considerably higher mechanical and thermal demands on engine oils. These more stringent operating conditions are safely mastered even with extended oil retention times. A reliable cold start at low external temperatures and full lubrication at high operating temperatures are ensured. The use of shear-stable active substances ensures compliance with SAE class 15W-40 during the entire oil change interval.

Application notes

Active-HD 15W-40 is used in highly stressed commercial vehicle and car diesel engines, as well as in gasoline engines. Engine oils of this performance category are recommended with extended oil change intervals.

Service description

Specifications:

- API CI-4 / SL
- ACEA E7 / A3/B4

Recommendations*:

- MB 229.1
- Cummins CES 20076 / 20077 / 20078
- MAN M 3275-1
- Mack EO-M Plus
- Renault Truck RLD / RLD-2
- Caterpillar ECF-1a / ECF-2
- MTU Typ 2
- JASO DH-1

Approval:

- MB-Approval 228.3
- Volvo VDS-3
- Renault VI RLD-2
- Mack EO-N

TYPICAL PARAMETERS	METHODS	UNITS	ActiveHD 15W40
Density at 15°C	DIN 51 757	kg/m ³	878
Viscosity at 40°C	DIN 51 562	mm ² /s	103
Viscosity at 100°C	DIN 51 562	mm ² /s	14
Viscosity at -20°C	DIN 51 377	mPa.s	5500
Viscosity Index (VI)	DIN ISO 2909	-	138
Pour point	DIN ISO 3016	°C	-36
Flash point COC	DIN ISO 2592	°C	224
TBN	DIN ISO 3771	mg KOH/g	10.5

* meets the requirements of the OEM manufacturer
The above values may vary within commercially accepted tolerances

Note:
No heavy metal was found in concentrations greater than 500 ppm. For this purpose, "metal" – molybdenum, manganese, calcium, zinc or magnesium.

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