

# Product information

## Formula Super 15W-40

PI 27/23/06/2020



### Description

Formula Super HD SAE 15W-40 is a year-round, high-performance, multi-purpose engine oil which is suitable for efficient lubrication in a mixed vehicle fleet. This optimum combination of selected additives and outstanding base oils is suitable for both diesel engines and gasoline engines.

### Properties

- very good dispersion properties
- outstanding oil film strength
- high shear stability
- optimum stability to aging
- suitable for gasoline and diesel engines with and without exhaust-gas turbocharging
- high wear resistance
- good cleaning action
- tested for the use with catalytic converters
- prevents black sludge
- low evaporation loss
- miscible with all commercially available motor oils

### Specifications and approvals:

ACEA A2 • ACEA B3 • ACEA E2 • API SJ • API CF-4 • Allison C4 • MIL-L 2104 E • MIL-L 46152 D • Volvo VDS

**LIQUI MOLY also recommends this product for vehicles or assemblies for which the following specifications or original part numbers are required:**

Caterpillar TO-2 • MAN 271 • MB 228.1 • MTU Typ 1

### Technical data

SAE class (engine oils)	15W-40 SAE J300
Density at 15 °C	0,875 g/cm <sup>3</sup> DIN 51757
Viscosity at 40 °C	100,5 mm <sup>2</sup> /s ASTM D 7042-04
Viscosity at 100 °C	14,3 mm <sup>2</sup> /s ASTM D 7042-04
Viscosity at -25°C (MRV)	< 60000 mPas ASTM D4684
Viscosity at -20°C (CCS)	≤ 7000 mPas ASTM D5293
Viscosity index	146 DIN ISO 2909
HTHS at 150°C	≥ 3,7 mPas ASTM D5481



### Technical data

Pour point	-30 °C DIN ISO 3016
Evaporation loss (Noack)	9,2 % CEC-L-40-A-93
Flash point	230 °C DIN ISO 2592
Total base number	7,4 mg KOH/g DIN ISO 3771
Sulfate ash	1,1 % DIN 51575
Color number (ASTM)	L4,5 DIN ISO 2049

### Areas of application

Universal engine oil for gasoline and diesel engines (aspirated diesel engines and diesel engines with exhaust-gas turbocharging, with and without charge air cooler). Especially suitable where there are long intervals between oil changes and extreme running conditions.

### Application

The operating instructions of the vehicle and transmission manufacturers must be followed.

### Available pack sizes

1 l Canister plastic	1439 D
1 l Canister plastic	1893 D-NL-F-GR-ARAB
1 l Canister plastic	9516 D-GB-F-ARAB
4 l Canister plastic	9526 D-GB-F-ARAB
5 l Canister plastic	1440 D
5 l Canister plastic	1866 D-NL-F-GR-ARAB
5 l Canister plastic	9517 D-GB-F-ARAB

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### Available pack sizes

20 l Canister plastic	1451
	D-GB
60 l Drum sheet metal	1442
	D-GB
205 l Drum sheet metal	1443
	D-GB

**Our information is based on thorough research and may be considered reliable, although not legally binding.**