



HAVENS

PRODUCT DATA SHEET

Havens Robusta HD SAE 10W40 API CJ-4/ SN ACEA E9

DESCRIPTION

Havens Robusta HD SAE 10W40 API CJ-4/SN ACEA E9 - is an extra high-performance diesel engine oil that helps extend engine life in the most severe on and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and After-treatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs).

PROPERTIES

This lubricant assures:

- Outstanding thermal and oxidative stability
- Excellent TBN reserves
- Stay-in-grade shear stability
- Excellent low temperature pumpability

APPLICATIONS

This product meets or exceeds the requirements of the latest API and ACEA industry specifications for diesel engine oils, as well as the requirements of many major American, and European engine manufacturers. Recommended for use in a wide range of heavy-duty applications and operating environments found in the on-road transport and off-road mining, forestry, construction, and agricultural industries.

Recommended for both off and on-highway diesel engines produced between 2008 and 2017 fitted with DPFs.

PERFORMANCE LEVELS

Meets and exceeds:

API CJ-4/CI-4+/CI-4, SN/CF; ACEA E9-08, E7-08; MB 228.31; MAN M3575; MTU Type 3.1, 2.1; Volvo VDS-4; Renault Trucks RLD-3; Cummins CES 20081; Caterpillar ECF-2, ECF-3; Deutz DQC III-10 LA ; Mack EO-O Premium Plus; DDC 93K218; Global DHD-1; JASO DH-2

TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	Havens Robusta HD SAE 10W40
Viscosity Grade			10W40
Density @ 15°C	ASTM D1298	kg/l	0.854
Viscosity @ 100°C	ASTM D445	cSt	12
Viscosity @ 40°C	ASTM D445	cSt	68.5
Viscosity Index (min)	ASTM D2270	-	170
Cold Crank Simulator	ASTM D5293	cP	<6,200 @ -35 °C
Pour Point	ASTM D97	°C	-45
Flash Point	ASTM D92	°C	>230
Total Base Number (TBN)	ASTM D2896	mg KOH/g	9



The values shown above are typical values at the date of publication. Havens Lubricants reserves the right to change these typical values without prior notice.

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.havenslubricants.com.

