



PRODUCT DATA SHEET

Havens Robusta HD SAE 10W30 API CK-4/SN, CJ-4/SN, ACEA E9

DESCRIPTION

Havens Robusta HD SAE 10W30 API CK-4/SN, CJ-4/SN, ACEA E9 is an advanced fully synthetic heavy-duty diesel engine oil that helps extend engine life while providing long drain capability and potential fuel economy for modern diesel engines operating in severe applications. This product is formulated to deliver exceptional performance in modern and older hard-working engines. Havens Robusta HD is formulated to reduce pollutant emissions, such as HC, NOx, CO and particles and to protect and ensure longevity of post treatment anti-pollution systems, such as particulate filters (GPF, DPf) and three-way catalysts.

APPLICATIONS

Havens Robusta HD CK-4 oils replace CJ-4 oils with the same viscosity grades and oil types (mineral/semi-synthetic/full-synthetic) and are backwards compatible down to CF-4 oils

Recommended for both older model and 2017 greenhouse gas, GHG'17 compliant on-highway diesel engines. Ideal for extended drain in both European and US Engines

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.

PERFORMANCE LEVELS

Meets and exceeds:

API CK-4/SN, CJ-4/CI-4; ACEA E6-12, E7-12, E9-12; MB 228.51, 228.31; MAN M3477, M3677; MTU Type 3.1; VOLVO VDS-4.5, VDS-4; Mack EO-O Premium Plus; Renault Trucks RLD-3; Cummins CES 20081, 20086; Caterpillar ECF-3; DEUTZ DQC III-IV LA; DDC 93K218, 93K222

TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	Havens Robusta HD SAE 10W30
Viscosity Grade			10W30
Density @ 15°C	ASTM D1298	kg/l	0.855
Viscosity @ 100°C	ASTM D445	cSt	10.5
Viscosity @ 40°C	ASTM D445	cSt	60
Viscosity Index (min)	ASTM D2270	-	≥150
Cold Crank Simulator	ASTM D5293	cP	<6,600 @ -30 °C
Pour Point	ASTM D97	°C	-47
Flash Point	ASTM D92	°C	>230
Total Base Number (TBN)	ASTM D2896	mg KOH/g	10



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.

