



PRODUCT DATA SHEET

Havens Robusta API CH-4/ SJ ACEA E7

DESCRIPTION

Havens Robusta is a heavy-duty mineral-based diesel engine oil recommended for turbo-charged and non-turbo-charged engines under normal conditions. Suitable for many heavy-duty engines. It meets all current industry standard requirements of major engine makers recommending API CH-4.

PROPERTIES

- Excellent protection against piston deposits
- Controls engine wear
- High detergency, gives long engine life
- Maintains engine power and efficiency and lowers servicing costs

APPLICATIONS

Havens Robusta can be used in older trucks and buses as well as for cost effective lubrication in off-highway applications such as agricultural tractors.

Havens Robusta provides excellent protection against piston deposits controls engine wear, gives long engine life, maintains engine power and efficiency and lowers servicing costs.

PERFORMANCE LEVELS

Meets and exceeds:

API CH-4/SJ; ACEA E5; MACK EOM; MAN M3275; MB 228.31; Volvo VDS-2; Renault Trucks RD/RD2

TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	Havens Robusta	
Viscosity Grade			15W40	20W50
Density @ 15°C	ASTM D1298	kg/l	0.880	0.890
Viscosity @ 100°C	ASTM D445	cSt	14.0	18.5
Viscosity @ 40°C	ASTM D445	cSt	108.7	160
Viscosity Index (min)	ASTM D2270	-	130	120
Cold Crank Simulator	ASTM D5293	cP	7,000 @ -20 °C	9,500 @ -15 °C
Pour Point	ASTM D97	°C	-30	-25
Flash Point	ASTM D92	°C	230	230
Total Base Number (TBN)	ASTM D2896	mg KOH/g	9	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.