

Heavy Duty Diesel Engine Oil- Long Drain Interval

# Vigor

SAE 10W30 / 10W40 / 15W40/20w50



API-CI-4

## Product Description

Vigor is a very high performance lubricant for diesel engines. It is formulated with the combination of high performance additives and highly refined base stocks which ensure the control and sweeping away the soot and particles found in high performance engine.

## Benefits

Vigor provides the following benefits :

- Suitable for the most severe technical constraints of new low emission diesel engines
- Good efficiency against bore polishing
- High level thermal stability
- High detergency and dispersancy levels
- Helps protect against wear and corrosion
- Helps to keep the engine clean by protecting from sludge formation

## Application

Vigor is suitable for all low emission engines meeting Euro 4, 3, 2 and US 2002 emission requirements. Also it has been tested and proven in day - today applications, from severe operation in mining and construction operations.

It is also suitable for many brands of Diesel engines, either locally or globally manufactured brands because it has global performance level DH D-1.

## Properties

The exclusive additive system delivers improved engine cleanliness and protection against piston deposits allowing to exceed the demanding requirements of most OEMs. It is adapted to the most severe servicing conditions such as transport, mining and public works. And its excellent thermal stability properties keep the stable enhances the oil change interval prolonged.



## Typical Characteristics

Vigor	10W30	10W40	15W40	PERFORMANCE LEVEL- MEETS
API Grade	CI-4	CI-4	CI-4	Global - DHD-1
Specific Gravity @ 15°C	0.8620	0.8640	0.8798	ACEA: E7/A3/B404/
Flash Point, °C	234	232	225	MB 228.3
Pour Point, °C	-46	-45	-27	VOLVO: VDS3
Viscosity at 40°C, cSt	81	98	102	MACK: EO - M Plus
Viscosity at 100°C,cSt	11.9	14.5	14.75	MTU: Type 2
Viscosity Index	142	154	140	MAN 3275
Total Base No., Min.	10.5	10.5	10.5	CUMMINS: 200728/7/6/1/
Sulfated Ash, % wt.	1.50	1.50	1.50	RVI: RLD / RLD2
				CAT: ECF 1

Typical physical characteristics of Vigor are given in the table. These are intended as a guide to the industry and are not necessarily manufacturing or marketing specifications.

## Health & Safety

Detailed health and safety information for this product is provided in a Material Safety Data Sheet which is available upon request from your Goodyear lubricants sales office, or via the Internet on [www.goodyearlubricants.me](http://www.goodyearlubricants.me)



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