

# DYNAMIC FLEET

SAE 15W-40 / 20W-50

## Product Description

The heavy-duty diesel engine oil specially designed for mixed fleets which has wide range of technology and service life to enhance engine cleanliness control and prevent sludge formation for both common-rail and prior technology diesel engines up to Euro IV technology requiring API CI-4 standard or lower. It provides excellent engine protection and maintains engine performance throughout the oil drain interval.

## Benefits

- Provide outstanding detergency and dispersancy properties for good soot handling as well as preventing sludge and deposit formation especially in pistons and rings.
- Offer excellent lubrication and engine protection against wear throughout the use.
- Adequate oil film thickness for maintaining the engine power in a wide temperature range and all driving conditions.
- Minimize the engine oil consumption.

## Applications

- Designed for modern and old heavy-duty diesel engines meeting the emission standards up to Euro IV equipped with turbocharger, commonrail direct injection system, exhaust gas recirculation (EGR) and without diesel particulate filter (DPF), which the OEMs recommend API CI-4 standard or lower.
- Recommended for commercial vehicles both on-highway and off-highway applications such as buses, trucks, heavy equipments, agriculture machineries, and stationary engines.

*The Moving Innovation* 

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## Typical Characteristics

Tests	Methods	Units	Results	
			15W-40	20W-50
Density at 15 °C	ASTM D4052	g/cm <sup>3</sup>	0.870	0.880
Kinematic Viscosity at 40 °C	ASTM D445	mm <sup>2</sup> /s	114	174
Kinematic Viscosity at 100 °C	ASTM D445	mm <sup>2</sup> /s	14.9	18.9
Viscosity Index	ASTM D2270	-	134	123
Cold-Cranking Simulator	ASTM D5293	mPa·s	6,132 at -20°C	8,121 at -15°C
Total Base Number	ASTM D2896	mgKOH/g	8.4	8.4
Flash Point (COC)	ASTM D92	°C	232	235
Pour Point	ASTM D5950	°C	-30	-30

## Performance Standards

- API CI-4

15W-40 20W-50



## Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>