



# DEO 8000 15W-40

Heavy Duty Diesel Engine Oil



Premium multi-grade heavy duty diesel engine oil formulated to satisfy the lubrication need of engines where API CI-4 and/or ACEA E7 performance standard is recommended. Oil is formulated with superior hydro-treated base oil and latest additive technology to give superior soot-related viscosity control and wear control in addition to deposit, oxidation and corrosion protection to protect engine with extended oil drain interval.

## Benefits

### Maintains Engine Power & Performance

Additive technology used in product formulation has excellent detergency to control deposits on engine parts even at high temperature to maintain power and performance over a longer oil drain interval.

### Outstanding Wear Protection

Superior anti-wear characteristics of the additive system gives outstanding protection against wear of engine components. Chances of wear at start-up and at high temperatures are addressed by the balanced multi-grade viscosity.

### Longer Oil Drains in Harsh Conditions

The outstanding anti-oxidant property of the additive system resists sludge formation, maintains oil viscosity over a longer period of time and gives additional life to oil in all environmental conditions.

### Outstanding Soot Dispersants

Very effective detergent keeps insoluble contaminants suspended in the oil; keeps the engine parts clean and enhances engine life.

## Applications

- PSO DEO 8000 is recommended for 4-stroke heavy duty diesel engines meeting the 2004 exhaust standard.
- Mixed fleet, natural aspirated & turbo charged diesel engines.
- Recommended for vehicles which have Exhaust Gas Recirculation (EGR) fitted to give improved engine durability.
- Commercial transport.
- Equally suitable for off-highway vehicles such as vehicles used in construction, quarry and agriculture to carry heavy load and harsh conditions.
- Stationary diesel engines.



## Approvals and Specifications

- API CI-4/SL
  - MACK EO-N
  - RENAULT VI RLD-2
  - VOLVO VDS-3
- Meets the requirements of**
- MB-Approval 228.3
  - MTU Type 2
  - DEUTZ DQC III-18
  - CAT ECF-1-a
  - CAT ECF-2
  - Detroit Diesel DDC 93K215
  - ACEA E7-22
  - CUMMINS CES 20076/77/78
  - MAN M3275
  - Global DHD-1
  - JASO DH-1

## Typical Characteristics\*

PROPERTIES	METHODS	TYPICAL RESULTS
		15W-40
Density @ 15°C, kg/L	ASTM D-4052	0.87
K. Viscosity @ 100°C, cSt	ASTM D-445	15.5
K. Viscosity @ 40°C, cSt	ASTM D-445	115.9
Viscosity Index	ASTM D-2270	141
Flash Point (COC), °C	ASTM D-92	210
Pour Point, °C	ASTM D-97	-27
Total Base Number, mg KOH/g	ASTM D-2896	10.3

\*These typical characteristics mentioned are based on current mean values.

Based on available information, this product does not contain any component that may produce any significant hazard to health when used for the recommended application. Guidelines for health and safety are available in Material Safety Data Sheet of the product. Dispose of used oil, containers, cartons labels in an environment friendly manner. Do not discharge used oil into drain, soil or water. Advice on application not covered in this leaflet, may be obtained from [lubricants.technical@psopk.com](mailto:lubricants.technical@psopk.com)



# DEO 8000 20W-50

## Heavy Duty Diesel Engine Oil



Premium multi-grade heavy duty diesel engine oil formulated to satisfy the lubrication need of engines where API CI-4 and/or ACEA E7 performance standard is recommended. Oil is formulated with superior hydro-treated base oil and latest additive technology to give superior soot-related viscosity control and wear control in addition to deposit, oxidation and corrosion protection to protect engine with extended oil drain interval.

### Benefits

#### Maintains Engine Power & Performance

Additive technology used in product formulation has excellent detergency to control deposits on engine parts even at high temperature to maintain power and performance over a longer oil drain interval.

#### Outstanding Wear Protection

Superior anti-wear characteristics of the additive system gives outstanding protection against wear of engine components. Chances of wear at start-up and at high temperatures are addressed by the balanced multi-grade viscosity.

#### Longer Oil Drains in Harsh Conditions

The outstanding anti-oxidant property of the additive system resists sludge formation, maintains oil viscosity over a longer period of time and gives additional life to oil in all environmental conditions.

#### Outstanding Soot Dispersants

Very effective detergent keeps insoluble contaminants suspended in the oil; keeps the engine parts clean and enhances engine life.

### Applications

- PSO DEO 8000 is recommended for 4-stroke heavy duty diesel engines meeting the 2004 exhaust standard.
- Mixed fleet, natural aspirated & turbo charged diesel engines.
- Recommended for vehicles which have Exhaust Gas Recirculation (EGR) fitted to give improved engine durability.
- Commercial transport.
- Equally suitable for off-highway vehicles such as vehicles used in construction, quarry and agriculture to carry heavy load and harsh conditions.
- Stationary diesel engines.



## Performance Standards

- API CI-4/SL
- ACEA E7-22
- CAT ECF-1-a
- MB-Approval 228.3

## Typical Characteristics\*

PROPERTIES	METHODS	TYPICAL RESULTS
		20W-50
Density @ 15°C, kg/L	ASTM D-4052	0.88
K. Viscosity @ 100°C, cSt	ASTM D-445	19.7
K. Viscosity @ 40°C, cSt	ASTM D-445	173.8
Viscosity Index	ASTM D-2270	129
Flash Point (COC), °C	ASTM D-92	229
Pour Point, °C	ASTM D-97	-21
Total Base Number, mg KOH/g	ASTM D-2896	10.3

\*These typical characteristics mentioned are based on current mean values.

Based on available information, this product does not contain any component that may produce any significant hazard to health when used for the recommended application. Guidelines for health and safety are available in Material Safety Data Sheet of the product. Dispose of used oil, containers, cartons labels in an environment friendly manner. Do not discharge used oil into drain, soil or water. Advice on application not covered in this leaflet, may be obtained from [lubricants.technical@psopk.com](mailto:lubricants.technical@psopk.com)