



DEO 8000 SAE 15W-40

Heavy-Duty Diesel Engine Oil



An exceptional multi-grade heavy-duty diesel engine oil designed to meet the lubrication requirements of engines where API CI-4 and/or ACEA E7 performance standards are recommended. Formulated with high-quality hydro-treated base oil and cutting-edge additive technology that ensures outstanding control over soot-related viscosity, wear, deposits, oxidation, and corrosion. This protection safeguards the engine while extending the oil drain interval.

Benefits

Maintains Engine Power & Performance

The additive technology employed in this product formulation exhibits excellent detergency and effective deposit control on engine components even under high temperatures. This ensures sustained power and performance throughout an extended oil drain interval.

Outstanding Wear Protection

The additive system's exceptional anti-wear properties provide outstanding protection against engine component wear. Addressing wear during start-ups and high temperatures is achieved through the balanced multi-grade viscosity.

Longer Oil Drains in Harsh Conditions

The remarkable anti-oxidant attribute of the additive system prevents sludge formation, sustains oil viscosity for an extended duration and prolongs the oil's lifespan in various environmental conditions.

Outstanding Soot Dispersants

An incredibly potent detergent ensures the suspension of insoluble contaminants within the oil, maintaining clean engine parts and improving engine longevity

Applications

- PSO DEO 8000 SAE 15W-40 is ideal for 4-stroke heavy-duty diesel engines complying with the 2004 exhaust standard.
- Suitable for mixed fleet applications, both natural aspirated & turbo charged diesel engines.
- Recommended for vehicles equipped with Exhaust Gas Recirculation (EGR) systems, enhancing engine durability.
- Designed for commercial transport.
- Equally applicable to off-highway vehicles used in construction, quarrying, and agriculture, enduring heavy load and harsh conditions.
- Compatible with stationary diesel engines.



Approvals & 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
- CUMMINS CES 20076/77/78
- MAN M3275
- Global DHD-1
- JASO DH-1

Typical Characteristics*

PROPERTIES	METHODS	TYPICAL RESULTS
SAE		15W-40
Density @ 15°C, kg/L	ASTM D-4052	0.8741
Kinematic Viscosity @ 100 °C, cSt	ASTM D-445	15.7
Kinematic Viscosity @ 40 °C, cSt	ASTM D-445	115.9
Viscosity Index	ASTM D-2270	141
Flash Point (COC), °C	ASTM D-92	218
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



DEO 8000 SAE 20W-50

Heavy-Duty Diesel Engine Oil



An exceptional multi-grade heavy-duty diesel engine oil engineered to meet the lubrication requirements of engines where API CI-4 and/or ACEA E7 performance standards are recommended. The oil comprises of superior hydro-treated base oil and cutting-edge technology, ensuring excellent control over soot-related viscosity and wear. Additionally, it provides protection against deposits, oxidation, and corrosion, safeguarding the engine while extending the oil drain interval.

Benefits

Maintains Engine Power & Performance

The additive technology incorporated into the product formulation exhibits exceptional detergency, effectively managing deposits on engine parts even under high temperatures. This ensures sustained power and performance throughout an extended oil drain interval.

Outstanding Wear Protection

The additive system provides exceptional protection against engine component wear. Wear risks during start-ups and high temperatures are mitigated by the balanced multi-grade viscosity.

Longer Oil Drains in Harsh Conditions

The remarkable anti-oxidant quality within the additive system prevents sludge formation, sustains oil viscosity for an extended period, and extends the oil's lifespan across various environmental conditions.

Outstanding Soot Dispersants

A highly efficient detergent effectively suspends insoluble contaminants in the oil, ensuring clean engine parts and promoting extended engine life.

Applications

- PSO DEO 8000 SAE 20W-50 is designed for 4-stroke heavy-duty diesel engines compliant with the 2004 exhaust standard.
- Suitable for mixed fleets, encompassing both naturally aspirated & turbocharged diesel engines.
- Recommended for vehicles equipped with Exhaust Gas Recirculation (EGR) systems to enhance engine durability.
- Ideal for commercial transportation.
- Equally suitable for off-highway vehicles, including those used in construction, quarrying, and agriculture, operating under demanding conditions while carrying heavy loads.
- Compatible with stationary diesel engines.



Performance Standards

- API CI-4/SL (Licensed)
- ACEA E7
- CAT ECF-1-a
- MB-Approval 228.3

Typical Characteristics*

PROPERTIES	METHODS	TYPICAL RESULTS
SAE		20W-50
Density @ 15°C, kg/L	ASTM D-4052	0.8851
Kinematic Viscosity @ 100 °C, cSt	ASTM D-445	19.5
Kinematic Viscosity @ 40 °C, cSt	ASTM D-445	173.8
Viscosity Index	ASTM D-2270	129
Flash Point (COC), °C	ASTM D-92	220
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