

# KunLun CI-4/SL HD Diesel Engine Oil

KunLun CI-4/SL HD Diesel Engine Oil is high performance diesel engine oil specially formulated for high-speed, four-stroke engines designed to meet 2004 exhaust emission standards and to sustain engine durability where exhaust gas recirculation (EGR) is used.

It meets the most severe lubrication requirements of European and US heavy-duty diesel engines particularly low emission EURO II, III, IV engines running under extreme conditions and extended oil drain intervals.

## Performance Standards

KunLun CI-4/SL HD Diesel Engine Oil meets the following performance requirements:

- API CI-4/SL
- ACEA E7\*
- Caterpillar ECF-1a\*
- Cummins CES20078
- Global DHD-1\*
- JASO DH-1\*
- MAN M3275-1\*
- MB 228.3\*
- MTU Oil Category 2\*

## Approval

- Cummins Eng. Std. CES20078 (SAE 15W-40)
- Mack EO-N (SAE 15W-40)
- Renault VI RLD-2 (SAE 15W-40)
- Volvo VDS-3 (SAE 15W-40)

### LICENSE

- API CI-4/SL (SAE 15W-40)

## Benefits

KunLun CI-4/SL HD Diesel Engine Oil provides the following benefits:

- Resists formation of lacquer, sludge and other deposits in the engine system under high temperature operations.
- Extends oil drain intervals.
- Sustains engine durability where exhaust gas recirculation (EGR) is used.
- Maintains maximum engine protection due to superior wear and bearing corrosion control.
- Protects the engine against corrosion from arduous acidic combustion by-products with good anti-rust and anti-corrosion properties.
- Protects against the formation of varnish and gums at elevated temperatures
- Resists thickening, oil line and filter plugging through effective oxidation inhibitors.

## Applications

KunLun CI-4/SL HD Diesel Engine Oil is recommended for use in diesel engines, such as high speed, four-stroke, turbocharged or naturally aspirated engines operating under very severe conditions. It is suitable for both highway, off-highway vehicular diesel engines where SHPD (Super High Performance Diesel) oils and extended drain intervals are required. Meets 2004 exhaust emission standards and is recommended for use in the latest exhaust gas recirculation (EGR) engines. Diesel Engine Oil can be used in place of CG-4, CH-4 and mixed fleets of gasoline engines.

## Typical Characteristics

KunLun CI-4/SL HD Diesel Engine Oil		
SAE Grade	15W-40	20W-50
Kinematic Viscosity		
40°C, mm <sup>2</sup> /s	107.4	177.1
100°C, mm <sup>2</sup> /s	14.6	19.6
Apparent Viscosity		
-15°C, mPa·s		8800
-20°C, mPa·s	6000	
Viscosity Index	140	127
Specific Gravity, 15°C, g/cm <sup>3</sup>	0.878	0.887
Flash Point, COC, °C	240	238
Pour Point, °C	-36	-24
TBN, mgKOH/g	10.4	10.3