

Sunlube is formulated from high performance base oils and a superior balanced additive system to provide optimum engine performance in modern diesel engines as well as older models. It protects against oil thickening, piston deposits, soot handling and wear and corrosion. It is recommended to Euro 3, and previous engines of most European and American manufacturers. It is also adapted to Euro 5 and previous engines of some manufacturers with appropriate oil drain intervals.

#### Customer benefits:

- Sunlube diesel engine oil contains excellent viscosity stability in service, guaranteeing effective engine lubrication in severe conditions.
- Piston cleanliness performance affords effective protection against cylinder liner polishing.
- Outstanding detergent, dispersant and anti-wear properties keep the engine clean and enable efficient control of soot, sludge and piston deposits

#### Performance standards:

- Sunlube mineral engine oils meet following international specifications:
- API: CI-4 Plus/CI-4/CH-4/SL
- ACEA: E7

#### Typical properties:

Properties	Unit	Test Method	Typical Value		
Grade	-		15W-40, API: CK-4	20W-50, API: CI-4	SAE 50, API: CH-4
Specific Gravity @ 15°C	g/cm <sup>3</sup>	ASTM D-1298	0.877	0.892	0.895
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /S	ASTM D-445	114	160	210
Kinematic Viscosity @ 100°C	mm <sup>2</sup> /S	ASTM D-445	14.5	18	19
Viscosity Index	-	ASTM D-2270	130	125	100
Flash Point	°C	ASTM D-92	230	240	246
Pour Point	°C	ASTM D-97	-30	-27	-21
TBN	mg KOH/g	ASTM D-2896	10	12	10
CCS Viscosity	cP	ASTM D-5293	6800 (-20)	9200 (-15)	-