

## LSA DIESEL MAX CK-4 15W40

**LSA DIESEL MAX CK-4 15W/40** meets API, CK-4 the most advanced heavy duty diesel oil classification for diesel engines of US, European and Japanese manufacturers. CK-4 was developed for on-road engines with diesel particulate filters (DPF) and low sulphur fuels and is often the preference of off-road equipment manufacturers where engines work harder in hot conditions.

### PERFORMANCE AND SERVICE CATEGORIES

#### Petrol Engines

For all petrol engines where 15W40 and APL SL, SM and SN are specified.

#### Diesel Engines

API CK-4 exceeds the performance of API CJ-4, CI-4 and CH-4 and may be used where any of these categories are required by engine manufacturers.

- ACEA E9
- API SL, SM and SN (Petrol Engines)
- API CI-4, CJ-4 and CK-4 (Diesel Engines)
- CATERPILLAR ECF-3, ECF-2
- CUMMINS CES 20081
- DETROIT DIESEL DFS, 93K218, 93K222
- DEUTZ DQC 111-10 LA
- JASO DH-2
- MACK EO-O PREMIUM PLUS
- MACK EOS-4.5
- MAN 3575, MAN 3275
- MB 228.31
- MTU CATEGORY TYPE 2.1
- RENAULT RVI RLD-3, RLD-4
- VOLVO VDS-4, VDS-4.5

### ADVANTAGES

Engine oil oxidation doubles with a 10 °C increase in oil operating temperature. CK-4 has twice the soot handling capacity of CI-4. The greater capacity provides extended drain for on-road and off-road and fixed plant in conjunction with an oil analysis program and compliance with the engine manufacturer's recommendations.

### STORAGE

Store undercover to avoid water ingress and protect package markings

### TYPICAL CHARACTERISTICS

Properties	Unit	Value
SAE Grade		15W/40
Viscosity @ 40°C	cSt	111
Viscosity @ 100°C	cSt	15.7
Viscosity Index		138
Density @ 15 °C	g/ml	0.875
Flash Point	°C	200
Pour Point	°C	-39
Total Base Number (TBN)	mg KOH/g	9.9
Sulphated Ash	% mass	0.99

### Package Sizes

**1000 litre IBC**  
**205 litre steel drum**  
**20 litre plastic pail**