



# SERIE 3

## 30, 40 and 50

### ■ Description

Diesel engine oil specially recommended for heavy duty on- and off-road applications such as public works machinery, trucks, buses and tractors. It is suitable to be used in diesel and gasoline engines. These lubricants have great detergent power and contain selected anti-wear agents to provide excellent protection against metal-to-metal contact, minimizing engine wear and shear which extends engine life. Very high oxidation stability helps to reduce oil ageing when operating at high temperature.

### ■ Properties

- Help to extend engine life.
- Its high detergency minimize piston and combustion chamber deposits.
- Reduce sludge and varnish.
- Its alkaline reserve (TBN) protect the engine against corrosion by neutralising the acids formed in the combustion.
- Good anti-wear properties, which leads to minimal wear and shear in engine parts.

### ■ Quality levels

- API CF/SF

### ■ Technical characteristics

	UNIT	METHOD	VALUE	VALUE	VALUE
SAE Grade			30	40	50
Density @ 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.881	0.885	0.890
Viscosity @ 100°C	cSt	ASTM D 445	10.8	14.3	18.7
Viscosity @ 40°C	cSt	ASTM D 445	93.0	140.0	212.0
Viscosity index	-	ASTM D 2270	100	100	98
Flash Point, open cup	°C	ASTM D 92	200 min	210 min	210 min
Pour Point	°C	ASTM D 97	-6 max	-6 max	-6 max
T.B.N.	mg KOH/g	ASTM D 2896	6.8	6.8	6.8

## ■ Hazard identification

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This product is not classified as toxic or hazardous under current legislation.

## ■ Handling

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Minimum precautions should be taken to avoid prolonged contact with the skin. The use of gloves, visors or glasses is recommended to avoid splashes.

## ■ Health and Safety Hazards

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**Inhalation:** Given that it is not a particularly volatile product, the risk of inhalation is minimal.

**Ingestion:** Do not induce vomiting. Provide water. Seek medical advice.

**Contact with the skin:** Wash with plenty of water and soap.

**Eyes:** Wash thoroughly with water.

**General measures:** Seek medical advice.

## ■ Fire-fighting measures

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No special measures required.

**Fire-extinguishing measures:** Foams, dry chemicals, CO<sub>2</sub>, water spray. Do not apply the jet of water directly as this could cause the product to disperse.

## ■ Environmental precautions

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Danger of physical pollution if spilt (water, coastlines, soil, etc.) due to its floatability and oily consistency that may harm flora and fauna on contact. Avoid material getting into water outlets.

**Decontamination and cleaning:** Treat like an accidental oil spill. Prevent dispersion using mechanical barriers and remove by physical or chemical means.

A safety information file is available on request.

This PDS is available at [www.repsoloil.com.my](http://www.repsoloil.com.my).

For more information about Repsol please visit [www.repsol.com](http://www.repsol.com)

Unless otherwise indicated, the figures cited in technical characteristics should be considered typical.