



HD 40 and 50

■ Description

Monograde lubricant oil suitable for naturally aspirated diesel engines and some petrol engines operating at moderate level. Its formulation of highly refined paraffin bases with carefully selected additives provides the highest level of performance in its category. They are suitable for use in both on-and off-highway vehicles and also those that operate in short-trip, stop-and-go type services.

■ Properties

- This high detergent and dispersing oil ensures thorough cleaning of the engine's internal parts, avoiding the formation of dirt and mud when cold.
- Retard harmful deposits formation on vital engine parts.
- Protect against rust, corrosion and oxidation.
- Reduce internal engine friction and protect against wear to extend engine life.

■ Quality levels

- API CD/SF

■ Technical characteristics

	UNIT	METHOD	VALUE	VALUE
SAE Grade			40	50
Density @ 15°C	g/cm ³	ASTM D 4052	0.886	0.890
Viscosity @ 100°C	cSt	ASTM D 445	14.1	18.6
Viscosity @ 40°C	cSt	ASTM D 445	139.0	213.0
Viscosity index	-	ASTM D 2270	98	97
Flash Point, open cup	°C	ASTM D 92	210 min	210 min
Pour Point	°C	ASTM D 97	-6 max	-6 max
T.B.N.	mg KOH/g	ASTM D 2896	5.7	5.7

■ Hazard identification

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

■ Handling

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

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

No special measures required.

Fire-extinguishing measures: Foams, dry chemicals, CO₂, water spray. Do not apply the jet of water directly as this could cause the product to disperse.

■ Environmental precautions

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.

For more information about Repsol please visit www.repsol.com

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