



# SERIE ESPECIAL FC 40 N

## ■ Description

Zinc-free mineral lubricant oil, specially designed for use in diesel engines equipped with silver bearings, such as those used in locomotives and stationary generators.

## ■ Properties

- It meets the same demands as a Serie 3 type lubricant though it also prevents damage in bearings whose alloy contains silver.
- Its addition ensures thorough cleaning of internal engine parts, especially the area of piston segments, thus preventing abrasive wear and prolonging engine life.
- Suitable alkaline reserve (TBN) for use of all kinds of diesels.
- Modern technology oil belonging to 5th generation.

## ■ Quality level

- EMD SD-60
- GE B30-7A
- API CF-2/CF

## ■ Technical characteristics

	UNIT	METHOD	VALUE
SAE Grade			40
Density at 15°C	g/ml <sup>3</sup>	ASTM D 4052	0.898
Viscosity at 100°C	cSt	ASTM D 445	14.6
Viscosity at 40°C	cSt	ASTM D 445	146
Viscosity index	-	ASTM D 2270	95 minimum
Flash point, open cup	°C	ASTM D 92	220 minimum
Pour point	°C	ASTM D 97	-18
T.B.N.	mg KOH/g	ASTM D 2896	13.0
Sulphated ashes	% in weight	ASTM D 874	1.2
Zinc	Ppm	ASTM D 4951	Maximum 10

## ■ Available in

Bulk, 185 kg drums.

## ■ 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.

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

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Technical data sheet for Lubricants. Review 3. December 2009.