

Caprano M 40

Diesel engine oil

KEY DATA



Monograde Lubricant for 4-stroke Diesel engines for inland navigation & coastal shipping.

INTERNATIONAL STANDARDS

- API CF

MANUFACTURER APPROVALS

Engine:

- Wärtsilä Vasa 22 / 22/26 and 32/32LN
- Wärtsilä 20/26/32/38/46/46F/64
- Wärtsilä 20DF/32DF/34DF/50DF
- Sulzer Z40/ZA40/ZA40S

MEETS THE REQUIREMENTS OF

Engine:

- MAN ES 4 stroke medium speed engines

Reduction drive/Reversing gear:

- ZF TE-ML 04A/04B
- Reintjes BV 2060/3&4 | BV 1597/3&4
- Flender A66

SUITABLE FOR

- ABC
- DEUTZ
- STORK
- Reduction drive/Reversing gear:
- BAUDOQUIN

APPLICATIONS

Caprano M 40 is recommended for **navigation 4-stroke Diesel engines** (turbocharged or naturally-aspirated) used in **inland and coastal shipping**. It is also approved for most **Wärtsilä Dual Fuel engines (SAE 40)**.

This lubricant is suitable for **naturally-aspirated and turbocharged engines, auxiliary power units and transmission components**.

Caprano M 40 is also suitable for **lubricating bearings and stern tubes**.

PERFORMANCES & CUSTOMERS BENEFITS

- Caprano M 40 offers **good mechanical and thermal resistance**. It also has **excellent water resistance and capability for filtration and centrifugation**.
- Outstanding **detergent, dispersant and anti-wear properties keep the engine clean and enable effective control of soot, sludge and piston deposits**.
- Caprano M 40 exhibits important alkaline reserve to **neutralize acid compounds** coming from the combustion.
- Its anti-wear and anti-corrosion additives ensure longer engine and transmission durability**.

CHARACTERISTICS *

TEST	UNIT	TEST METHOD	RESULT
Density at 15°C	kg/m ³	ASTM D1298	899
Kinematic viscosity at 40°C	mm ² /s	ASTM D445	147
Kinematic viscosity at 100°C	mm ² /s	ASTM D445	14.3
Viscosity index	-	ASTM D2270	95
Pour point	°C	ASTM D97	-6
T.B.N	mgKOH/g	ASTM D2896	14.5

*The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations. If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet (SDS).

This can be obtained on request from your local reseller and is available for consultation at <https://ms-sds.totalenergies.com>.

This product should not be used for any purposes other than the ones for which it is intended.

