



## PRODUCT DATA SHEET

### EKO MARINE MONOGRADE 40

Monograde lubricant for marine 4-stroke diesel engines

#### DESCRIPTION

EKO MARINE MONOGRADE 40 is a high performance monograde marine diesel engine oil of SAE 40 viscosity grade.

It is suitable for high-speed four-stroke marine diesel engines, naturally aspirated or turbocharged, operating on coastal shipping, fishing, leisure boats and other applications, where SAE 40 monograde lubricants are recommended.

EKO MARINE MONOGRADE 40 is also suitable for transmission systems, gearboxes and reversing gears, always in accordance with manufacturer's recommendation.

#### SPECIFICATIONS

ACEA E2, API CF/SH, MAN 270, MTU Type 1, MB 228.0.

**Suitable for use:** CATERPILLAR TO-2.

#### APPLICATIONS

- High-speed 4-stroke marine diesel engines, where SAE 40 monograde lubricants of ACEA E2/API CF quality level and MTU Type 1, MAN 270 and MERCEDES BENZ 228.0 specifications are recommended.
- Transmission systems, gearboxes and reversing gears, according to manufacturer's recommendations.

#### ADVANTAGES

- High resistance to oxidation and thermal degradation: maintains a strong lubricating film at high operating temperatures.
- Excellent detergency and dispersancy: provides effective control of deposits and maintains cleanliness of the engine.
- Strong protection of the metal surfaces against wear and corrosion: helps increasing the lifespan of the engine and the transmission system.



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### TYPICAL CHARACTERISTICS

| Properties                 | Methods    | Units    | EKO MARINE MONOGRADE 40 |
|----------------------------|------------|----------|-------------------------|
| SAE Viscosity Grade        | -          | -        | 40                      |
| Density, 15°C              | ASTM D4052 | g/ml     | 0.895                   |
| Kinematic Viscosity, 100°C | ASTM D445  | cSt      | 13.50                   |
| Kinematic Viscosity, 40°C  | ASTM D445  | cSt      | 127.5                   |
| Viscosity Index (VI)       | ASTM D2270 | -        | 101                     |
| Sulfated Ash               | ASTM D874  | % w/w    | 0.8                     |
| Base number, TBN           | ASTM D2896 | mg KOH/g | 7.0                     |
| Pour Point                 | ASTM D5950 | °C       | -27                     |
| Flash Point, COC           | ASTM D92   | °C       | 248                     |

### HEALTH AND SAFETY

Protect the environment while disposing of used product. Used lubricants should be collected at specific points to ensure they do not pollute the environment. Do not mix with solvents, brake fluids, antifreeze fluids and water, to allow for proper handling.

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This data sheet provides basic information on the product as at the date of drafting. For further information regarding applications, please contact EKO ABEE Technical Support, tel. +30 210 5509 511.  
Advice on safe handling is provided in the Safety Data Sheet.