



RP AURELIA TI 3020 Y TI 4020

Description

AURELIA TI 3020 and TI 4020 are lubricants for trunk engines, developed for use in both marine and stationary medium-speed engines which use residual fuels with low sulphur content ($S \leq 0.5\%$) in accordance with IMO 2020. AURELIA TI combines a new and exclusive formula of the best, cutting-edge additives along with highly-refined bases, which give the resulting oil a substantial margin of performance given the high levels of stress to which the lubricant has been submitted in the latest engines and even in future diesel engine developments. Indicated for use in:

- Four-stroke medium-speed diesel engines designed for use in marine applications and for electric engines in cogeneration plants which burn low-sulphur residual fuels.
- Four-stroke dual-fuel engines.
- Especially demonstrate great performance in engines with specific low lubricant consumption which use low-quality residual fuels.
- Also appropriate for lubrication of gearboxes, bearings, and coils.

Properties

- Surpass API-CF quality levels.
- Ensure thorough cleaning of hot and cold parts of the engine, due to its excellent detergent and dispersant properties.
- The capacity to reduce deposit formation in the engine results in maintenance savings.
- Excellent resistance to the negative effects of fuel contamination.
- Excellent thermal resistance and high resistance to oxidation.
- Due to its viscosity stability, fewer refuels are necessary and oil consumption is reduced.
- High resistance against water contamination, with a demulsibility capacity that allows engine protection and quickly eliminates water after a leak.
- High protection against wear-and-tear and very high resistance of the lubricant film against high pressure.

Quality levels, approvals and recommendations

AURELIA TI conforms to leading manufacturer standards of medium-speed engines:

- | | |
|--------------------|---------------------|
| • CATERPILLAR MaK* | • DAIHATSU* |
| • HIMSEN* | • MAN ES (MAN B&W)* |
| • ROLLS ROYCE* | • WÄRTSILÄ* |
| • YANMAR* | *Formal approval |



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Technical specifications

| | UNIT | METHOD | VALUE | |
|-------------------------------|-------------------|------------|-------|-------|
| SAE Grade | | | 30 | 40 |
| Density at 15 °C | g/cm ³ | ASTM D4052 | 0.884 | 0.910 |
| Kinematic viscosity at 40 °C | cSt | ASTM D445 | 110 | 140 |
| Kinematic viscosity at 100 °C | cSt | ASTM D445 | 12 | 14 |
| Flash point, open cup | °C | ASTM D92 | >230 | >230 |
| Pour point | °C | ASTM D97 | -12 | -12 |
| TBN | mg KOH/g | ASTM D2896 | 20 | 20 |

The above mentioned characteristics are typical values and should not be considered product specifications.