

# AURELIA TI 3040 & TI 4040

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## DESCRIPTION

**AURELIA TI** is a range of trunk piston engine oils developed for use in medium speed diesel engines burning residual fuels. **AURELIA TI** combines an exclusive formulation of latest additive technologies, developed by Total research center, and a highly refined base oil to provide an substantial safety margin to cope with the higher stress levels even with the latest and future designs of diesel engines.

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## APPLICATIONS

- Highly rated medium speed diesel engines used in marine and stationary power generation applications, burning heavy fuel oil with various qualities and sulphur contents.
- Particularily suitable for low or very low oil consumption engines operating with a poor quality residual fuel.
- Bearings and stern-tubes.
- Reduction gear lubrication.

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## PROPERTIES

- API service : exceeds CF specification
- Ensures outstanding cleanliness of the hot and cold parts of the engine, due to improved detergency and dispersancy capabilities.
- Reduced build-up heavy deposits in the engine leading to a reduction in maintenance costs.
- Excellent resitance to the negative effects of contamination with residual fuel.
- Excellent thermal resistance and high temperature oxidation resistance.
- Excellent control of viscosity increase leading to reduced top-ups.
- Very good water resistance and an outstanding demulsibility capacity leading to maintain the engine performance and to remove the water rapidly after a water ingress.
- Very good wear protection and very good oil film strength at extreme pressures.

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## CHARACTERISTICS

CHARACTERISTICS	UNITS	AURELIA TI	
		3040	4040
S.A.E. Grade		30	40
Density at 15 °C	kg/m <sup>3</sup>	910	912
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	112	140
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	12	14
Flash Point (COC) ASTM D 92	°C	>or= 230	>or= 230
Pour Point	°C	- 9	- 9
BN (ex TBN) ASTM D 2896	mgKOH/g	40	40

Characteristics of this chart are indicative typical values

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## APPROVALS

The **AURELIA TI** range hold approvals from all major medium speed engine manufacturers such as WÄRSTILÄ, MAN diesel, Caterpillar MaK, Yanmar, Daihatsu, HiMSEN, Rolls Royce...

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## HANDLING, HEALTH AND SAFETY

Lubricants consisting of highly refined mineral oils with specific additives.

In normal conditions of use, these lubricants present no particular toxic hazard.

All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin.

Prevent any risk of splashing, and keep away from combustible materials.

Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available from your Lubmarine local representative.

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