



### 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 the latest additive technologies, developed by the Total research center, and a highly refined base oil to provide a substantial safety margin to cope with higher stress levels including those of the latest and future designs of diesel engines.

### Applications

The AURELIA TI range can be used in highly rated, medium speed diesel engines used for both marine and stationary power generation, using residual heavy fuel oil with low sulphur content. It is also suitable for dual fuel 4-stroke engines. Oils in the range are particularly suitable for engines consuming a low or very low amount of oil and using poor quality residual fuel. They can also be used to lubricate bearings and stern tubes, along with reduction gears.

## Trunk Piston Engine Oil

### Approvals

The AURELIA TI range has been developed in close collaboration with OEMs and meets the requirements of all major medium speed engine manufacturers.

### Features and Benefits

The AURELIA TI range exceeds the CF specification defined by the American Petroleum Institute. It ensures outstanding cleanliness of both the hot and cold parts of an engine thanks to its detergency and dispersant properties. Its ability to reduce heavy deposit build-up in an engine creates savings via a reduction in maintenance costs. It also offers excellent resistance to the negative effects of residual fuel contamination, along with excellent thermal resistance and oxidation resistance. The stable viscosity of AURELIA TI range means that fewer top-ups are needed.

The product is also very water resistant, with outstanding demulsibility capacity, enabling rapid removal of water after an ingress and the maintenance of good engine performance. Good wear protection and excellent oil film strength at extreme pressures are also established features of the product.

### Typical Characteristics

	Methods	Units	3020	4020
S.A.E. Grade			30	40
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	884	910
Kinematic viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	110	140
Kinematic viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	12	14
Flash Point (COC)	ASTM D 92	°C	> = 230	> = 230
Pour Point	ISO 3016	°C	-12	-12
BN	ASTM D 2896	mgKOH/g	20	20

Characteristics of this chart are indicative typical values.

#### Handling, Health & Safety

AURELIA TI 4020 consist of highly refined mineral oils with specific additives. All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin or eyes. 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 at: [www.quickfds.com](http://www.quickfds.com) and [www.totallubmarine.com](http://www.totallubmarine.com)