

AURELIA TI range characteristics



METHODS	Density @15°C (kg/m³) ISO 3675	Pour Point (°C) ISO 3016	Flash Point (COC) (°C) ASTM D 92	Viscosity @ 100°C (mm²/s) ISO 3104	S.A.E. Grade	BN (mgKOH/g) ASTM D 2896
Aurelia TI 3030	910	-12	>230	12	30	30
Aurelia TI 3040	910	-9	>230	12	30	40
Aurelia TI 4030	910	-12	>230	14	40	30
Aurelia TI 4040	910	-9	>230	14	40	40
Aurelia TI 4055	920	-9	>230	14	40	55

Characteristics of this chart are indicative of typical values.

Aurelia TI is miscible and compatible with Aurelia XL and equivalents on condition that the lubricant on board the vessel is in satisfactory condition as shown by recent routine analysis such as DIAGOMAR PLUS.

Diagomar Plus professional oil analysis

Diagomar Plus is a rapid lubricating oil analysis service that monitors the performance and condition of your marine engines and auxiliary machinery.

- **High speed:** fast analyses of lubricant samples with rapid delivery of results
- **Efficient:** test results are automatically transferred to a full historical database and are available online
- **Reliable** state of the art technology and equipment
- **User-friendly:** straightforward and easy to use
- **Convenient:** four strategically located laboratories in Rotterdam, Singapore, Shanghai and Columbus (OH)
- **Added value:** expert engineers provide diagnosis and comments on each analysis

More information under: www.diagomarplus.com



Photos: courtesy of SeaFrance Rodin / Total / M. Dufour / J.B. Asselin / J.B. Dufour / VAGENCE ÉCROUM

Lubmarine is Total's worldwide marine and power plant lubricants marketing and distribution network. It supplies industry-leading products in over 70 countries worldwide, backed up by a highly motivated local service team.

Lubmarine

TOTAL LUBRIFIANTS
562, avenue du Parc de l'Île
92029 Nanterre Cedex - France
Tel: +33 | 41 35 48 02
Fax: +33 | 41 35 36 97

www.lubmarine.com



Global Technology, Local Service

TOTAL



AURELIA TI
TRUNK PISTON ENGINE OIL



TOTAL

AURELIA TI

Premium lubrication FOR MEDIUM SPEED ENGINES

Aurelia TI is Lubmarine's latest product for four-stroke engines. Its performance meets the requirements demanded by today's and tomorrow's engine designs.

FIELD OF APPLICATION

Aurelia TI is a highly efficient oil specially designed for the lubrication of medium-speed diesel engines in both marine and power plant applications burning HFO* of varying sulphur content.

Aurelia TI is intended for use with main engines, diesel generators and stationary engines.

Aurelia TI is suitable for use with SAE 30, 40, 50 and BN 30, 40, 55.

The formulation of Aurelia TI includes the very latest generation of additive packages, so that it is adaptable for all running conditions, however severe.

Aurelia TI has already been used extensively and with great success by our customers.

TECHNOLOGICALLY ADVANCED & INNOVATIVE

Aurelia TI has demonstrated its outstanding technical capabilities, improving both engine cleanliness and engine protection over thousands of hours of testing.

ENGINE CLEANLINESS

- Leads to extreme cleanliness in the engine (piston under-crown, ring grooves, rocker arms, camshaft box and crankcase) as a result of its high detergency and dispersancy levels.
- Prevents the formation of deposits in hot parts thanks to its excellent thermal resistance.
- Shows an enhanced capacity to reject the contaminants and remove the deposits from engine parts, especially in case of fuel contamination.

ENGINE PROTECTION

- Controls its viscosity increase thanks to high oxidation stability and thermal resistance.
- Ensures outstanding performance in case of water contamination, due to its exceptional water shedding capacity.
- Guarantees the constant presence of a lubricating film which prevents engine component wear, even in extreme running conditions, as a result of its optimized formulation.

A TESTED INNOVATION

TECHNOLOGICAL DEVELOPMENT

Aurelia TI was developed by a dedicated team of marine lubricants experts in Total Research & Development Centre at Solaize (France) and has undergone extensive in-house laboratory tests as well as tests on our own MAN bench engine.

TESTS & APPROVALS

It has also been field tested on both vessels and power plants in co-operation with leading marine engine makers, and under the supervision of their service engineers.

Exhibiting outstanding lubricating performance, Aurelia TI has been approved by all four-stroke engine manufacturers **and has successfully achieved more than 40,000 hours** of official tests by MAN Diesel Turbo, Wärtsilä, MAK, Yanmar, and others.

BENEFITS

LOWER MAINTENANCE COSTS

Aurelia TI's cleanliness and engine protection properties lead to:

- Reduced need for oil changes during maintenance overhauls.
- Reduced duration of the maintenance operations linked to the lubricant.

LONGER LUBRICANT EFFICIENCY

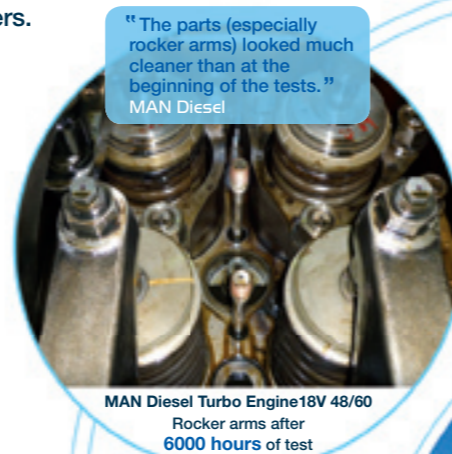
Aurelia TI's viscosity and BN controls ensure that the lubricant's quality is maintained for a longer period of time:

- This in turn extends the duration of the oil charge at a high level of performance.
- It also reduces the volume needed for oil refreshments.

LASTING ENGINE RELIABILITY

Due to its double action against wear and deposits, Aurelia TI ensures the protection of engine parts, preventing any failure.

This guarantees greater engine reliability and performance over longer periods, whatever the conditions, which makes Aurelia TI suitable for a wide range of engines, including the very latest designs.



*HFO: Heavy Fuel Oil

The information contained in this catalogue is indicative only and not legally binding for TOTAL Lubrifiants S.A., or any of the Total Group companies. The listed products and services are subject to availability and/or change. TOTAL Lubrifiants S.A. reserves the right to modify the information in case of any changes, including withdrawal, with regard to any of its products or services or any elements thereof. For further information, please also refer to the Technical Data Sheets and the Safety Data Sheets.