

AURELIA XL Range Characteristics

Lubricant	Density at 15° C (Kg/m ³)	Pour Pt (° C)	Flash Pt COC (° C)	Viscosities (mm ² /s)		S.A.E Grade	BN (ex TBN) (mgKOH/g)
				40° C	100° C		
Aurelia XL 3025	910	-9	>230	110	12	30	25
Aurelia XL 3030	915	-9	>230	110	12	30	30
Aurelia XL 3040	920	-9	>230	110	12	30	40
Aurelia XL 3055	925	-9	>230	110	12	30	55
Aurelia XL 3065	930	-9	>230	110	12	30	65
Aurelia XL 4025	915	-9	>230	140	14	40	25
Aurelia XL 4030	920	-9	>230	140	14	40	30
Aurelia XL 4040	925	-9	>230	140	14	40	40
Aurelia XL 4055	930	-9	>230	140	14	40	55
Aurelia XL 4065	935	-9	>230	140	14	40	65
Aurelia XL 5025	910	-9	>230	210	20	50	25

Lubmarine is Total's worldwide marine lubricants marketing and distribution network built on the strength of our partner companies.

It supplies industry-leading products in over 70 countries and 700 ports backed up by a highly motivated local service team.

Lubmarine

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Global technology delivered with local service **TOTAL**

Aurelia XL

Clean lubrication
for tomorrow's engines



TOTAL

Aurelia XL

clean lubrication
for tomorrow's engines

**A new generation
of lubricants for
medium speed
engines running on
heavy fuel oils**

Aurelia XL has been specially formulated using the latest additive technology to cope with the increasingly demanding environment of the latest marine engines. It has been formulated and tested to have industry leading performance in the following areas: compatibility with residual fuel of different qualities leading to excellent engine cleanliness in both the hot and cold areas of the engine, good high temperature thermal and oxidation stability, low volatility, high load carrying capacity and excellent corrosion protection.



Benefits of Aurelia XL

Lower Maintenance Costs

Aurelia XL's superior clean formulation reduces oil consumption by maintaining the ring pack in good condition. Cleaner crankcases, cam boxes and rocker arms reduce the cleaning required during maintenance operations.

The new clean formula reduced ring sticking and breakage, which contributes to a longer engine life. Superior protection of all engine parts against corrosion due to Aurelia XL high BN leads to longer component life and longer service intervals.

Aurelia XL's exceptional resistance to oxidation and thermal break down reduces oil viscosity increases leading to an improvement in lubricants life.

Greater Engine Reliability

Due to the advanced formula of Aurelia XL your engine will remain cleaner and piston ring belt, cylinder liners and piston undercrown deposits (piston cooling gallery) will be reduced. This will lead to greater engine reliability, especially in high stress or engine overload conditions.

Designed and tested for the following applications

Aurelia XL has been developed for use in medium speed main propulsion and auxiliary trunk piston diesel engines in both marine and power plant applications. It is also suitable for use in turbochargers, geared transmissions, oil filled stern tubes and variable pitch propellers and other deck equipment requiring a SAE 30 or 40 grade oil.

Aurelia XL: Main features benefits

Detergency

Keeps the hot part of the engine clean. Reduces build up of deposits on piston rings and piston undercrowns and purifier pre-heaters.

Dispersancy

Keeps the cold part of the engine clean reduces the build up of "black paint" or sludge in the crankcase, rocker area and cambox.

Fuel compatibility

Resists the effects of contamination with residual fuel, avoids the formation of black sludge and asphaltenic residues. Helps fuel pump reliability.

Thermal stability

Maintains lubricants performance and avoids increases in viscosity.

Anti-oxidation

Resists the oxidation attack thus avoiding the formation of lacquers and deposits and oil degradation.

Alkalinity reserve (BN)

Prevents corrosive wear by rapidly neutralising the acids formed by the burning of high sulphur fuel.

Extreme pressure anti-wear

Guarantees the presence of a lubricating film, even at high pressure. Reduces engine component wear.

Demulsibility - filtrability

Guarantees the easy elimination of water in the case of salt or fresh water contamination. Facilitates easy filtration and the elimination of insoluble contaminants.

Resistant to hydrolysis

The lubricant maintains its performance characteristics after separation from water.

Anti Corrosion

Maintains engine part in good condition leading to long engine life.

► Aurelia XL An Insurance Policy for Your Engine

Aurelia XL has been formulated with an extra safety margin to ensure that it exceeds the requirements of today's highly rated engines and that will meet the requirements of tomorrow's engine designs. The product has undergone extensive in house laboratory, bench and engine tests plus a full set of in service trials to prove its superior performance. Aurelia XL has been approved by all major diesel engine OEMs following extensive field engine tests.

► Available range

Aurelia XL is available in SAE 30 and 40 grades and in a range of BNs with the major grades being BN 30, BN40 and BN 55. For special applications BN 25 and BN 65 grades are also available.

► Condition Monitoring - Diagomar Plus

To help reduce costly downtime and to optimise and extend engine oil life Lubmarine recommends that ship operators use Lubmarine's independent condition monitoring service **Diagomar Plus**. For further details please see www.lubmarine.com

**Aurelia XL: superior clean formulation
delivers excellent in service results.**

