



2020 lubrication solutions

engine lubricants

**protect your engine with lubricants
formulated for today — and tomorrow**



take full control

our engine oils work hard so your engines don't have to

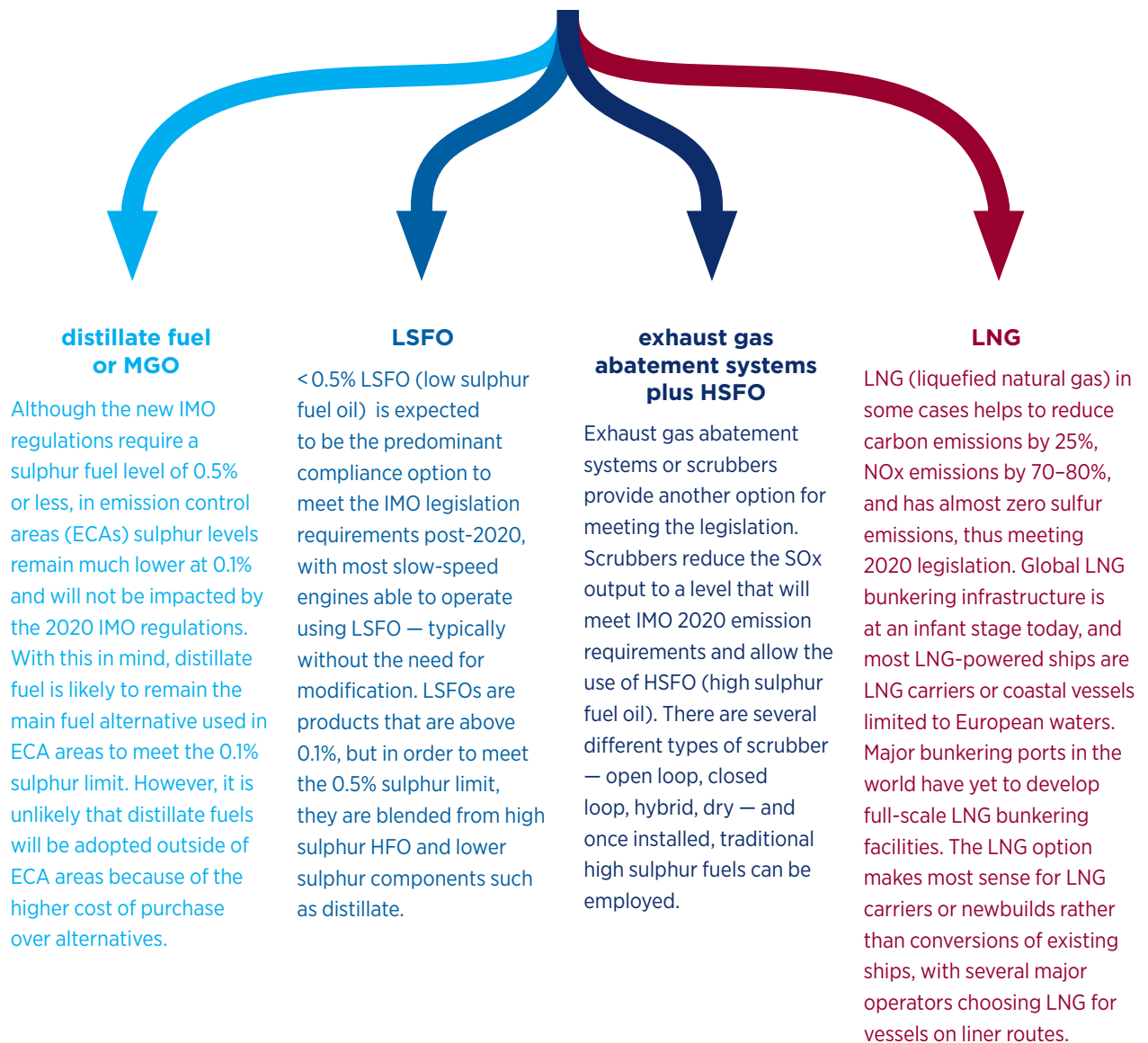
With one of the industry's largest distribution networks, Chevron has the infrastructure to deliver the marine products and services you need.

From our global operational reach to the depth of our experienced personnel, we stand for one thing above all else — reliability.

helping you navigate to 2020 lubrication solutions

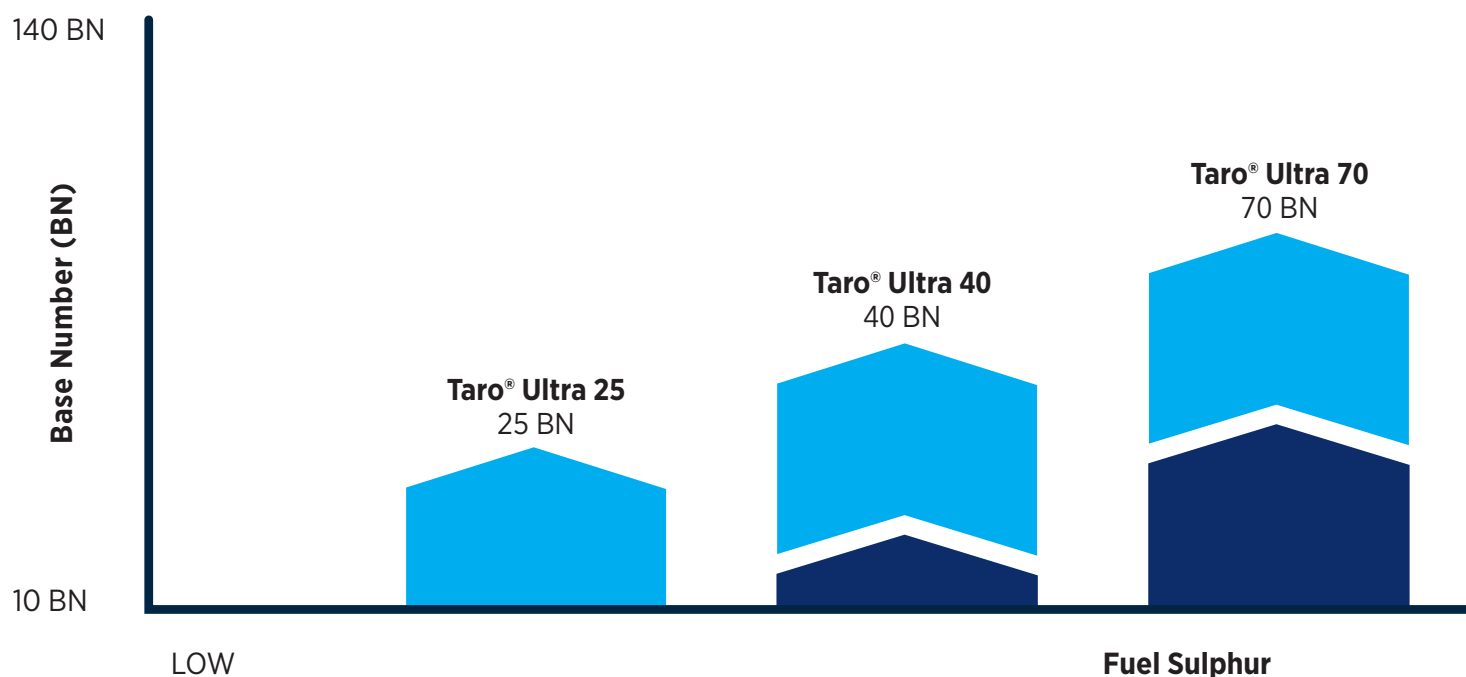
Chevron Marine's Taro® Ultra family is a regulation-ready range of new generation cylinder oils, providing the reassurance of a global lubrication solution for virtually every fuel eventuality, while lowering your fleet's total cost of ownership.

routes to IMO 2020 compliance



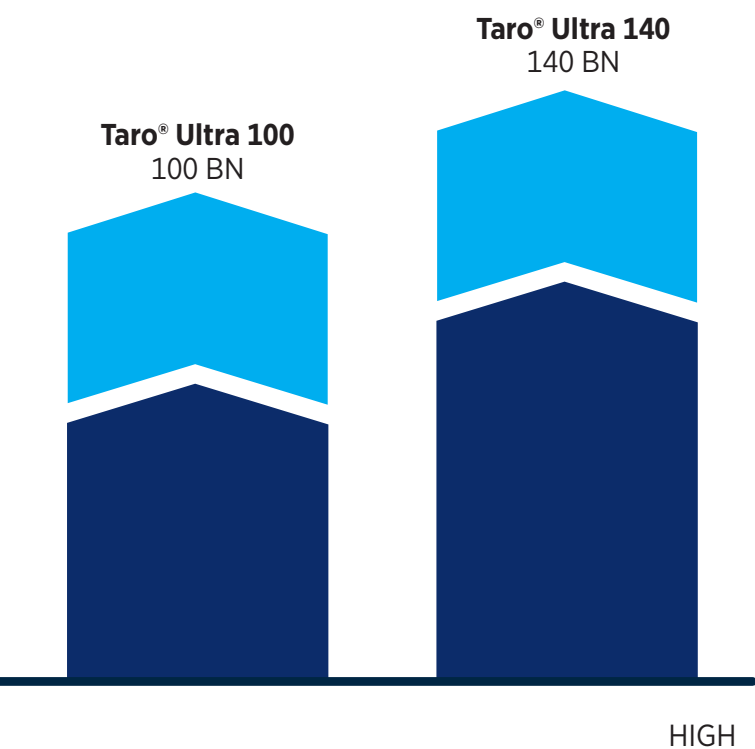
**we've got you covered ...
whichever operational route you choose**

cylinder oils for today — and tomorrow



Taro Cylinder Lubricants*

Taro Grade	Taro® Ultra 25	Taro® Ultra 40	Taro® Ultra 70
Description	High performance 25BN SAE 50 cylinder oil for engines operating on ECA fuel, LNG, LPG and ethane ethanol.	High performance 40BN SAE 50 cylinder oil for engines operating on LSFO and distillate fuel single grade for 0.50% sulphur. Additionally for the use of intermittent ECA fuel and permanent methanol.	High performance 70BN SAE 50 cylinder oil for a wide range of fuels.
Base Number (BN)	25	40	70
ISO Viscosity Grade	50	50	50
Density 15°C kg/l	0.90	0.92	0.92
Viscosity at 100°C	19	19	19
Pour Point, °C	-12	-12	-12
OEM Approved			
MAN ES	✓	✓	✓
WinGD (former Wärtsilä)	✓	✓	✓



Taro® Ultra 100	Taro® Ultra 140
High performance 100BN SAE 50 cylinder oil, the optimal choice for most slow-speed vessels. Optimized to combat cold corrosion in two-stroke engines. Designed for high sulphur HFO & scrubber operations.	High performance 140BN SAE 50 cylinder oil optimized to also combat cold corrosion and lower feed rates in two-stroke engines. Designed for cost performance optimization with scrubbers.
100	140
50	50
0.93	0.98
19	19
-12	-12
✓	✓
✓	

* Always use Taro products in line with OEM guidelines.

Five cylinder lubricants for every need

Taro Ultra — formulated to cope with the demands and provide the flexibility needed post IMO 2020 implementation. Developed and field tested for over 65,000 hours in a range of 2-stroke engines and vessel applications using a variety of bunker fuels, including 0.50% sulfur blends, alternative and hybrid fuels as well as traditional bunker fuels to mirror almost all future operations. Performance analysis from the FAST vessel optimization program and strong working relationships with major marine OEMs provides the reassurance you expect from Chevron Marine Lubricants, helping you navigate through change.



OEM approved



future-proof



optimize feed rates



corrosion protection



high temperature performance

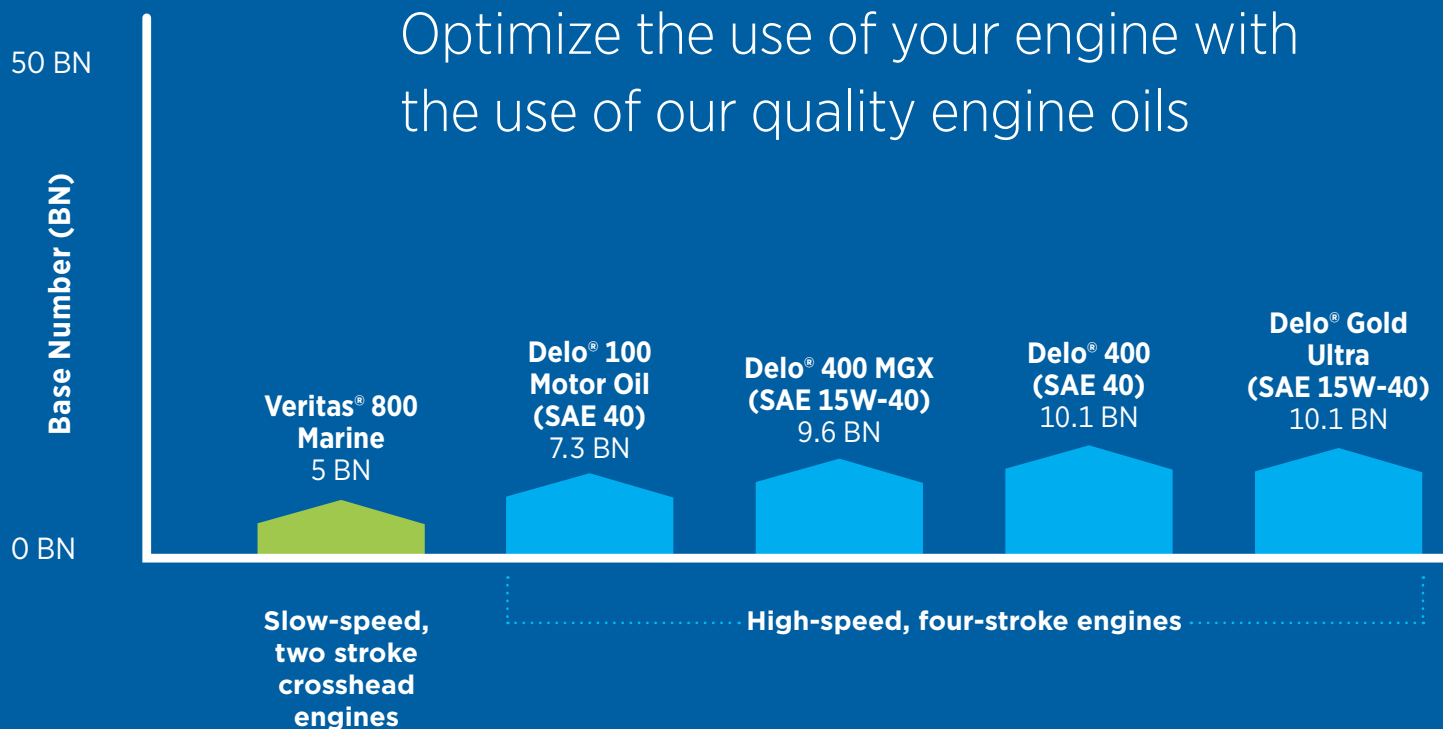


maintain engine cleanliness



global support

diesel engine oils



optimize your engine, FAST

Predictive measures and analysis play a vital role in the maintenance of vessel equipment. The FAST range of services enable operators and engineers to quickly diagnose the condition of their engine and protect crucial equipment **before** it results in costly downtime.



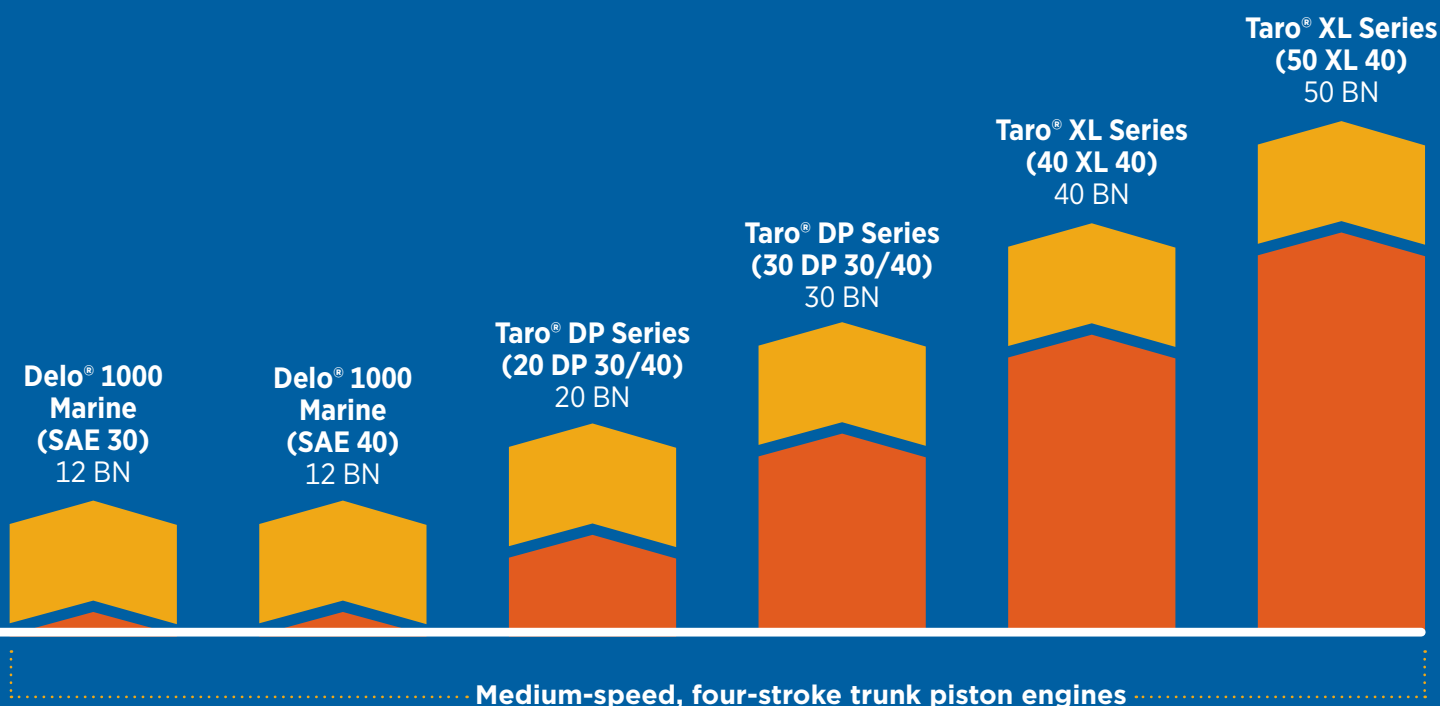
1 Take samples



2 Test on board



3 Send for lab analysis



with the FAST™ range of services



DOT.FAST® Drip Oil Analyzer

Delivers onboard results with laboratory accuracy. Easy to use and innovative, the testing is supported by onshore analysis reviewed by experts.

FAST™

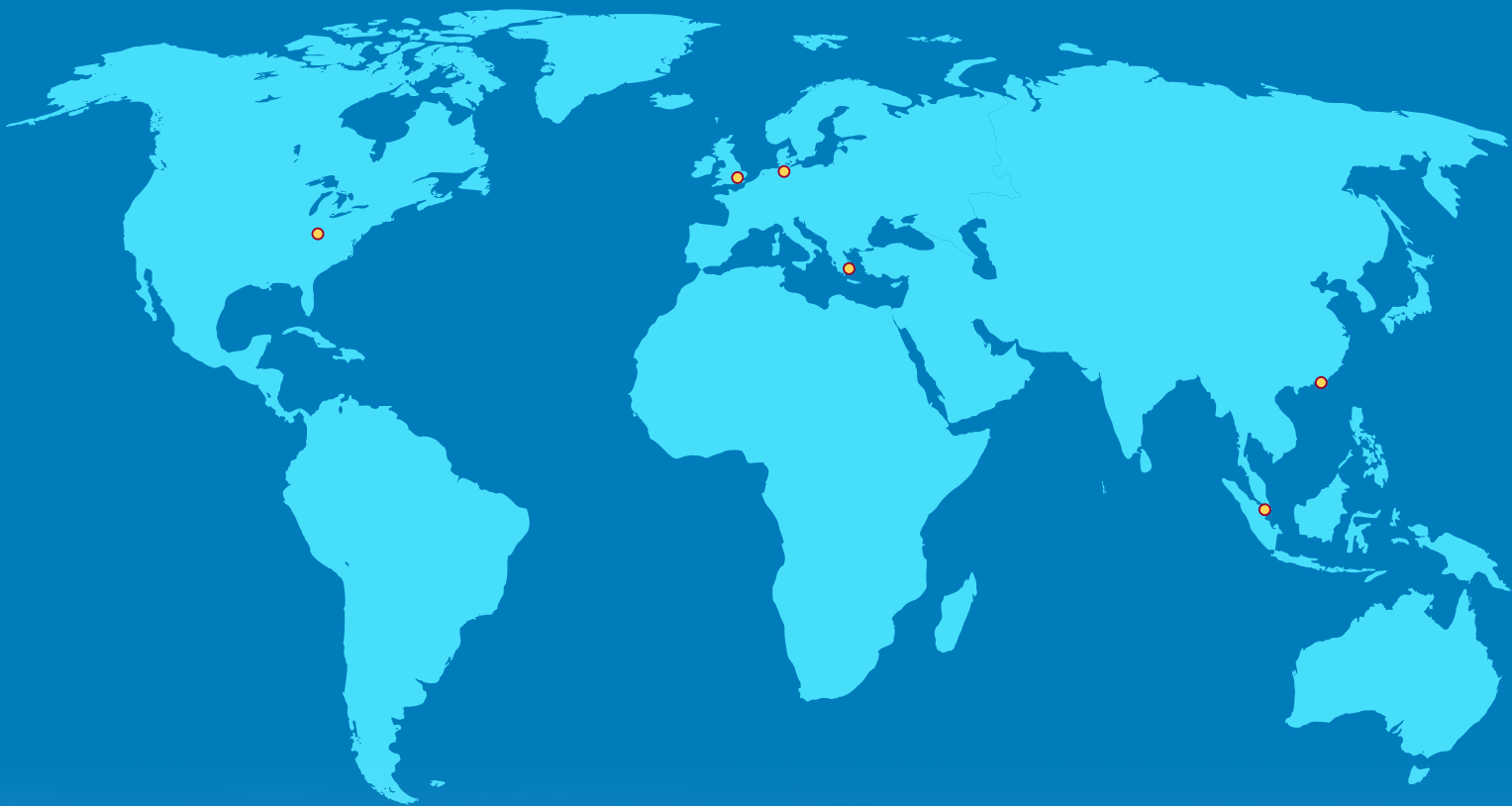
Provides comprehensive fluid analysis at our advanced global laboratories where the focus is on what you need most — reliability.

FAST™ OnBoard

A portable and user-friendly digital laboratory providing easy to interpret results, measuring viscosity, water and base number (BN).

XLI Portable Refractometer

A simple and easy to use onboard device to read the concentration of Chevron's XLI Cooling Water Treatment in fluid samples.



hamburg – hong kong – london – louisville – piraeus – singapore

www.chevronmarinelubricants.com



Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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