



marine lubricants

marine engine lubricants

**formulated for
today and tomorrow**



lubricant solutions for a variety of engines

Emission reduction goals are shaping the future of marine engines and driving change in the shipping industry on a global scale. Slow- and medium-speed diesel engines remain the predominant power sources for deep sea shipping, and there are numerous different fuel types available for both two-stroke and four-stroke engines. These are some of the options that can help ensure compliance:

Marine gas oil/marine diesel oil (MGO/MDO)

Fuels with sulphur content below 0.1%; typically of distillate nature can be used in both ECA zones as well as to meet IMO 2020 emission requirements.

Very low sulphur fuel oil (VLSFO)

Blended fuels with sulphur content up to 0.5%; the fuel choice for a large proportion of deep sea vessels.

Liquid natural gas/liquefied petroleum gas (LNG/LPG)

Latest engine technology developments make liquid natural gas an attractive solution, particularly for LNG carriers burning the boil-off gas.

Alternative fuels

Fuels including methanol (MeOH), ammonia (NH₃) biofuels & hydrogen; are becoming viable options.

Exhaust gas abatement systems (scrubbers) for high sulphur heavy fuel oil (HSHFO)

Used to remove elements from fuels of a residual nature with sulphur content over 0.5%.



helping customers to comply with emissions legislation, whichever operational route you choose

Our range of regulation-ready Taro® Ultra cylinder oils work alongside our Veritas® 800 Marine crankcase oil to provide the reassurance of a global lubrication solution, while helping to protect your slow-speed, two-stroke crosshead engine and helping to minimise the total cost of ownership.

Taro Ultra cylinder oils

The Taro Ultra range is designed to offer flexibility in a changing fuels landscape. Taro Ultra has been extensively field tested for over 100,000 hours across a broad range of vessel applications using a variety of bunker fuels, including 0.5% sulphur blends, alternative and hybrid fuels, as well as traditional bunker fuels to mirror almost all operations.

Taro Ultra cylinder oils range from a base number (BN) of 40 to 140 for compatibility with virtually all fuel types, from those with zero or low sulphur content, to those with very high sulphur content when used in combination with exhaust gas abatement systems.

We collaborate with OEMs to ensure our products are compatible with and approved for the very latest marine applications and engine types. Combined with industry leading solution-based services, two-stroke engines provide the reassurance to help you through your journey.

product highlights:

- OEM-approved
- Enables feed rate optimisation
- Offers corrosion protection
- Helps to improve high temperature performance
- Helps keep engines clean.

product range and fuel types

MeOH	LNG/LPG	MGO/MDO	VLSFO	HSHFO
			Taro Ultra 140 (BN 140)	
			Taro Ultra 100 (BN 100)	
			Taro Ultra 70 (BN 70)	
		Taro Ultra 40 (BN 40)		
New		Taro Ultra Advanced 40 (BN 40)		

- Recommended for and suitable for use in the majority of two-stroke engines; Everllence¹ (Category II) and WinGD approved.
- Suitable for use; contact your Chevron Marine Products service representative for recommended options.

- Recommended for and suitable for use in the majority of two-stroke engines; Everllence¹ (Category I) and WinGD approved.

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.
¹ Formerly MAN Energy Solutions

slow-speed, two-stroke crosshead engines

Product	Fuel type	BN	SAE VG	Key approvals and recommendations
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cylinder oils for slow-speed, two-stroke crosshead engines

Taro® Ultra 140 High performance 140 BN SAE 50 cylinder oil for vessels equipped with scrubbers burning HSHFO with sulphur content above 1.5%. Optimised to help protect from corrosion at the lowest possible cylinder oil feed rate.	HSHFO with scrubber and alternation with VLSFO	140	50	Approved for Everllence ¹ (Category II) – Mark 9 engines and higher, and WinGD engines.
Taro Ultra 100 High performance 100 BN SAE 50 cylinder oil, optimised to help combat corrosion. The optimal choice for most vessels equipped with scrubbers, burning HSHFO with sulphur content above 1.5%.	HSHFO with scrubber and alternation with VLSFO	100	50	Approved for Everllence ¹ (Category II) – Mark 9 engines and higher, and WinGD engines.
Taro Ultra 70 High performance 70 BN SAE 50 cylinder oil for a wide range of fuels.	HSHFO with scrubber and alternation with VLSFO	70	50	Approved for Everllence ¹ (Category I) – Mark 8 engines and lower, and WinGD engines.
Taro Ultra Advanced 40 High performance 40 BN SAE 50 cylinder oil that meets Everllence ¹ (Category II) requirements. Delivers piston cleanliness at the level of a high BN cylinder oil (≥100 BN), with moderated BN and oil ash content. Designed to protect your engine for a range of low and zero sulphur fuels including MGO/MDO, VLSFO, LNG and methanol.	VLSFO, MGO/MDO, LNG/LPG, MeOH	40	50	Approved for Everllence ¹ (Category II) – Mark 9 engines and higher.
Taro Ultra 40 High performance 40 BN SAE 50 cylinder oil for engines operating on fuel with a sulphur content up to 1.5% (including VLSFO and HSHFO), as well as those operating on methanol or intermittently operating on MGO/MDO.	VLSFO, MGO/MDO, LNG/LPG, MeOH	40	50	Approved for Everllence ¹ (Category I) – Mark 8 engines and lower, and WinGD engines.

crankcase oils for slow-speed, two-stroke crosshead engines

Veritas® 800 Marine 30 Crankcase oil for two-stroke crosshead marine engines, which is blended with highly refined base oils and carefully selected additives to provide very good anti-corrosion and anti-foam properties.	All fuel types	5.6	30	Approved for Everllence ¹ , WinGD and Japan Engine Corp.
Veritas® 800A Marine 30 Crankcase oil for two-stroke crosshead marine engines, which is blended with highly refined base oils and carefully selected additives to provide very good anti-corrosion and anti-foam properties.	All fuel types	5.4	30	Approved for Everllence ¹ , WinGD and Japan Engine Corp.

For full approvals and recommendations, refer to the relevant PDS sheet.
Always consult your Chevron Marine Products representative for the latest approvals.

medium-speed, four-stroke engines

Our range of Delo® and Taro® diesel engine oils, and HDAX® gas engine oils, are designed for trunk piston engines and are also compatible with a wide range of fuels from zero to high-sulphur content, from liquid fuel to LNG or dual-fuel operations.

Product	Fuel type	BN	SAE VG	Key approvals and recommendations
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diesel engine oils for medium-speed, four-stroke trunk piston engines

Taro XL Series (50 XL 40)	HSHFO, VLSFO; fuels with a sulphur level up to 4.5%	50	40	Approved by major OEMs including Everllence ¹ , Wärtsilä, MaK (Caterpillar), Rolls-Royce Bergen, Daihatsu, Hyundai HiMSEN and Yanmar.
Taro XL Series (40 XL 40)	HSHFO, VLSFO; fuels with a sulphur level up to 4%	40	40	
Taro DP Series (30 DP 30/40)	HSHFO, VLSFO; fuels with a sulphur level up to 4%	30	30/40	
Taro DP Series (20 DP 30/40)	HSHFO, VLSFO, MGO/MDO; fuels with a sulphur level up to 2%	20	30/40	
Delo 1000 Marine 30/40	MGO/MDO	12	30/40	Approved by major OEMs including Everllence ¹ , Deutz, MaK (Caterpillar), Rolls-Royce Bergen, Daihatsu, Hyundai HiMSEN and Yanmar.
Delo SHP SAE 30/40	MGO/MDO	12	30/40	
HDAX 9700 SAE 40	LNG, MGO/MDO	5.8	40	Approved by Everllence ¹ .
HDAX 5200 SAE 40	LNG	4.2	40	Approved by major OEMs including Caterpillar CG, GE Jenbacher, MWM, Wärtsilä and Waukesha.

¹ Formerly MAN Energy Solutions

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**wherever you are in the world,
we've got you covered**

Our innovative FAST™ family of services and cloud solution tools are designed to optimise equipment performance, reduce lubricant consumption and help to lower the cost of your operation. Onboard monitoring and laboratory analysis can extend the life of your assets and help your operation become more efficient. We understand the impact of change and provide tailored analysis services for customers, helping to meet the challenges of today's marine shipping industry.

FAST

Our comprehensive lubricant condition monitoring and optimisation program provides a diverse range of test equipment packages that help you achieve maximum performance and predict problems before they arise. Receive actionable recommendations for each sample from Chevron Marine specialists via user-friendly PDF reports emailed within 48 hours of receipt, plus online digital access to data and trending.

FAST OnBoard

A compact, portable and lightweight test kit that offers immediate, accurate and reliable onboard test results for engine lubrication oils as well as for circulating, hydraulic, compressor and gear oils. Measuring critical parameters such as BN, water content and viscosity, the kit is fast and easy to use, providing the continuity of a

regular testing regime onboard the vessel to quickly and accurately monitor the performance of the oils used.

DOT.FAST® Drip Oil Analyser

An innovative and unique onboard iron testing kit to help balance conditions within your engine, delivering immediate results with laboratory accuracy. As fuel oil quality varies, DOT.FAST is designed to give ship engineers the ability to optimise cylinder oil consumption and minimise wear by measuring total iron content, enabling immediate action to be taken, supported by expert reviewed onshore analysis. With a robust design for long service life, the kit is easy to use and the consumables include; pre-filled, individual vials that contain the right volume of chemicals to test the drip oil sample right away.



For more details on our products and services, please visit **chevronmarineproducts.com**, or contact your local Chevron representative or marketing office.

**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 industry knowledge, we offer solutions for your journey.





www.chevronmarineproducts.com



Our Family of Brands

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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