



The First in Synthetics®

Products for Marine Applications

- *Performance*
- *Power*
- *Protection*





Marine Operating Conditions

What's the unique problem of the marine engine? Water. Water promotes rust, corrosion and rapid wear. Freshwater-cooled boats operate cool, which promotes in-engine condensation and rust. Closed-system marine engines tend to operate very hot, which promotes the creation of acids — and engine corrosion. The longer the engine works, the more water and acid build, and the acid and water continue to work after engine shutdown.

AMSOIL Synthetic Engine Oils

AMSOIL synthetic engine oils shield engine parts from rust and continuously neutralize engine oil acids. They are ideal for use during operations and lay-up.

Additionally, AMSOIL synthetic motor oils are formulated for extended drain intervals. In fact, many AMSOIL product users base their oil changes on the findings of used oil analysis instead of hours, a critical benefit in operations where time is money and oil changes are difficult.

AMSOIL synthetic motor oils are extended drain capable because they are *synthetic* oils. Synthetics are much more resistant to heat, oxidation and mechanical breakdown than are conventional oils, which helps synthetic oils last longer than conventional oils. AMSOIL synthetic motor oils are formulated with long-lasting, top-quality additives to take advantage of the durability of synthetic basestocks, and make extended drain capable oils.

Finally, synthetic oils offer superior lubrication and protection to that offered by conventional oils, due to the ability of synthetics to maintain low-temperature fluidity for rapid post-startup lubrication and protection and their ability to maintain a durable film of protection in high-temperature operations.

Engine Oil By-Pass Filter

Conventional oil filters cannot remove water from the oil circulation. They also do not consistently capture particles smaller than 15 microns. Research shows particles in the 5 to 20 micron size range cause up to 60 percent of engine wear.

The AMSOIL By-Pass Oil Filter, used in conjunction with full flow oil filtration, removes water. It also removes virtually all particles down to three microns in size, and even removes particles smaller than three microns with greater than 50 percent efficiency.

Ultra-filtered oil — like that delivered by the By-Pass Oil Filter — lasts longer and performs better than conventionally filtered oil, and that increases engine life and performance.





Engine Oil Full Flow Filter

The AMSOIL Super Duty Full Flow Oil Filter offers superior filter life and filtration to that offered by conventional full flow oil filters. Its blend of cellulose, fiberglass and synthetic media and tight pleating optimize small particle capture, total particle capture, media durability and media capacity.

In fact, performance tests demonstrate the AMSOIL Super Duty Filter provides over 75 percent better combined efficiency/capacity than other leading filters, and that increases filter life.

The AMSOIL Super Duty Filter also features an oil pressure relief valve when required, to ensure continuous oil flow; a heavy-duty drawn case with a drawn steel double-crimp base and rolled under seaming for filter body strength; and an anti-drain-back valve when required to keep dirty oil in the filter when the engine is not running.

Coolant

AMSOIL Propylene Glycol Antifreeze and Coolant offers significantly lower toxicity than conventional ethylene

glycol products do, important benefits for closed system engines operating in the sensitive marine environment.

Gear Lubricant

AMSOIL Synthetic 80W-90 GL-4 Gear Lube provides outstanding rust and corrosion protection for gear face protection and outstanding demulsibility for rapid water separation.

AMSOIL Gear Lube offers dependable lubrication and protection in extreme operating temperatures, maintaining fluidity in low temperatures and a durable film of protection in high temperatures.

AMSOIL Gear Lube offers thermal stability and durability, which protect gears from deposits and wear during and after sustained high-temperature operations.



Complete Filter Coverage

AMSOIL distributes Hastings filters, offering a complete line of filters for all engine, drivetrain and other marine, equipment and automotive applications.





Diesel Marine Craft

Diesel Fuel Modifier

AMSOIL Diesel Fuel Modifier offers the advantages of AMSOIL ADM in a formulation made for light- to medium-duty diesel engines. AMSOIL Gasoline Stabilizer may be used to stabilize diesel fuel during storage.

Cetane Boost Additive

AMSOIL Cetane Boost Additive improves ignition, combustion efficiency and power. AMSOIL Cetane Boost also raises cetane by three to seven numbers and reduces white smoke emissions.

Diesel Fuel Additive Concentrate

AMSOIL Diesel Fuel Additive Concentrate, formulated for use in heavy-duty diesel engines, improves the performance, cold-temperature applicability and emissions profile of diesel fuels.

Engine Oil Filters

The AMSOIL Dual Gard By-Pass Oil Filtration System, for use in 20-quart and larger engines, pairs two AMSOIL

Spin-On By-Pass Filter elements on a handy mount for double-length filter element changes, and easy filter accessibility. It is ideal for working craft with little time available for engine service.

Engine Oil

AMSOIL Synthetic 15W-40 Heavy Duty Diesel and Marine Oil is specifically formulated for marine diesel or gasoline engines, with powerful rust inhibitors and 12 TBN, a highly protective acid-neutralization number. AMSOIL 15W-40 Marine Oil is formulated for extended drain intervals, and has proven itself in extended drain in-engine service since 1975, the year it was introduced.

* Not recommended for use in EMO (Electro Motive Diesel) Engines.

Coolant

AMSOIL Propylene Glycol Antifreeze and Coolant offers superior cavitation protection to that offered by conventional

ethylene glycol antifreeze products. Diesel engines are particularly prone to cavitation damage, and profit significantly from the increased cavitation protection of AMSOIL PG Antifreeze and Coolant.

AMSOIL PG Antifreeze and Coolant is also less damaging to engine bearings in the event that the engine oil is contaminated with coolant. In fact, while engine bearing damage occurs at less than one percent contamination with conventional coolant, it may not occur until the oil is contaminated with eight percent or more AMSOIL PG Antifreeze and Coolant.

Fisherman Saves Time and Money

Commercial fisherman Paul Daniels switched his Detroit Diesel 525 hp 12V-71T boat main engine over to AMSOIL Synthetic 15W-40 Heavy Duty Diesel and Marine Oil and an AMSOIL Dual Gard By-Pass Oil Filter to increase engine life and decrease maintenance.

Daniels had been changing his conventional oil at 250- to 300-hour intervals. With AMSOIL products on board, he conservatively increased his change intervals until he reached his present 2000 hour oil changes with sampling and filter changes at 500 hours.

“We fish three to six days at a time, sometimes trawling 24 hours a day. The engine runs at continuous load most of the time, which is ideal for a Detroit Diesel. But there’s no getting around it—we really work that engine.

“AMSOIL Heavy Duty Diesel and Marine Oil and the AMSOIL Dual Gard filter give me the outstanding protection I demand and the extended drain intervals I want. I appreciate the savings in time and money.”



Inboard Gasoline-Powered Craft Four-Cycle Outboard Craft

AMSOIL Formula 4-Stroke Synthetic Motor Oil

AMSOIL Formula 4-Stroke Synthetic Motor Oil is specially formulated to provide serious protection and performance in four-stroke outboard motors. Its broad 0W-40 viscosity rating provides superior protection in both hot and cold temperature extremes, and its superior shear stability and resistance to vaporization keep engine wear, oil consumption, friction, heat and emissions to an absolute minimum.

Engine Oil

AMSOIL Synthetic 15W-40 Heavy Duty Diesel and Marine Oil and AMSOIL Series 3000 Synthetic 5W-30 Heavy Duty Diesel Oil contain tough, dependable anti-rust agents that shield engine metals from water. Both are formulated with 12 Total Base Number for dependable, long-lasting acid inhibition and corrosion protection. Generally, motor oils average 7 TBN, significantly

lower corrosion protection than the 12 TBN of AMSOIL 5W-30 and 15W-40.

The anti-rust, anticorrosion protection of AMSOIL 5W-30 and 15W-40 is especially important during periods of layup when standing water may do great harm.

Performance Improver Gasoline Additive

AMSOIL Performance Improver Gasoline Additive dissolves and removes fuel system deposits and other contaminants for improved power and overall performance in injected and carbureted gasoline engines. AMSOIL PI also reduces PCV and EGR system deposits, reduces exhaust emissions and improves engine starting, idling and response.

Gasoline Stabilizer

AMSOIL Gasoline Stabilizer keeps gasoline and diesel fuel from oxidizing and deteriorating, prolonging its storage life. Gasoline Stabilizer inhibits the formation of varnish and

gum, which helps prevent injector and poor engine performance.

Engine Oil Filters

The AMSOIL Dual Remote Oil Filtration System pairs an AMSOIL SDF Full Flow Oil Filter with an AMSOIL By-Pass Oil Filter, providing the superior water and small-particle capture of by-pass filtration and top-quality full-flow filtration on one convenient, easily accessible mount.

The Dual Remote filtration system increases the volume of oil in engine circulation, especially when the largest possible filters are installed in the system. Increased oil capacity increases oil life, helps optimize engine operating temperatures and enhances engine life.

With AMSOIL 15W-40 or 10W-30, the Dual Remote Oil Filtration System and a regular program of used oil analysis and filter changes, gasoline inboard marine engines may never need another oil change.

Engine Life Increases 500 Percent

More than 60,000 tourists annually visit Alpine Canyons, South Island, New Zealand for high-speed thrills on Shotover Jet Ltd. jetboats.

The tourist trade is tough service for the boats. The Chevrolet 454 cu. in. V8-engined jetboats are in service 365 days a year, making up to 28 high speed river trips a day. The boats develop maximum torque at extremely low engine operating temperatures, due to the cooling effect of the snow-fed river water they draw. How does Shotover protect these hard-working engines?

With AMSOIL synthetic motor oils and AMSOIL by-pass oil filters. Before converting the boats to AMSOIL motor oil and filters and propane fuel, oil change intervals were at 25 hours and engine life in the 500 hour range. The propane fuel, AMSOIL synthetic motor oil and AMSOIL by-pass oil filter combination provides 400-hour oil change intervals and engine life up to 2500 hours — that's 16 times greater oil service life and five times greater engine life — a huge savings for Shotover Jet Ltd.



Outboard Two-Cycle Gasoline Engine

Synthetic 2-Cycle Oils

AMSOIL Synthetic 2-Cycle Oils, available in premix (100:1) and injector formulations, reduce friction and wear, improve throttle response and deliver maximum power. Their clean-burning formulations prevent plug fouling and carbon deposits, delivering quick dependable starts, sustained power and performance with virtually no smoke and emissions, even during prolonged idling. AMSOIL 2-cycle oils contain antirust agents for rust inhibition during off-season storage.

Series 2000 2-Cycle Racing Oil

AMSOIL Series 2000 2-Cycle Racing Oil retained 17.6 percent more power in lubricity tests run against petroleum and synthetic TC-W3 reference oils. The outstanding lubrication and protection offered by AMSOIL Series 2000 2-Cycle Racing Oil to two-cycle engines subject to the flat-out performance demands of racing minimizes power-robbing friction and prevents piston scuffing and seizure.

Series 2000 Synthetic 2-Cycle Racing Oil also burns much cleaner than conventional two-cycle oils, ensuring engine cleanliness and maximum performance.

AMSOIL Series 2000 2-Cycle Racing Oil outperforms manufacturer-recommended two-cycle oils and may be used as a replacement for them.



Synthetic Marine Lower Unit Gear Lube

AMSOIL Synthetic Marine Lower Unit 80W-90 GL-4 Gear Lube is formulated for outboard and stern drive lower unit gears and bearings. It is a long-life extreme-pressure gear lube that provides outstanding protection against friction and wear.

AMSOIL Lower Unit Gear Lube contains extra long-lasting corrosion inhibitors formulated for fresh and saltwater protection. AMSOIL Lower Unit Gear Lube resists water contamination and deterioration, providing dependable service and protection in wet operations. AMSOIL Lower Unit Gear Lube contains dependable antifoam agents, ensuring the maintenance of a protective lubricating film devoid of wear-promoting entrained air.

AMSOIL Lower Unit Gear Lube offers low-temperature fluidity for cold water protection, performance and fuel efficiency. Its high-temperature lubricating film ensures dependable protection during normal and high-stress operations.

AMSOIL Gave Me More Power

David A. Zgrabik owns a guide service and is also a tournament angler. His success depends on the reliability of his equipment.

“I started the year with only 10 trips booked,” said Zgrabik, “and when all was said and done I ended up with 26. I already have 12 booked for the coming year!”

Zgrabik also made the most of his opportunities to fish in tournaments. He said, “I have to say it was not a bad year, with five first place awards and three big bass awards.

“After starting to run AMSOIL Series 2000 2-Cycle Racing Oil in my motor, I noticed considerably less smoke at start-up, improved idling and more power. I even have an unexplainable 200 rpm increase! There is no way I would do without my AMSOIL motor oil now!”

David A. Zgrabik





Marine Trailer

Synthetic Water Resistant Grease

AMSOIL Synthetic Water Resistant Grease is an extreme-pressure lithium-complex wheel bearing grease specially formulated for extreme resistance to water washout. AMSOIL Water Resistant Grease is the grease of choice for protection of frequently wetted components, such as marine trailer wheel bearings. AMSOIL Water Resistant Grease forms a shield of protection against rust and corrosion, protecting components during use and storage.

AMSOIL Water Resistant Grease also offers outstanding extreme temperature performance for rapid cold-temperature lubrication and protection and dependable high-temperature lubrication and protection. Its outstanding friction-reducing ability enhances fuel efficiency and power.

Synthetic Multi-Purpose Grease

AMSOIL Synthetic Multi-Purpose Grease is an extreme-pressure lithium-complex wheel bearing grease formulated for all-around use in high-speed, high-temperature applications, such as trailer wheels. AMSOIL Multi-Purpose Grease also provides outstanding protection against the destructive effects of water and dependable rust and corrosion inhibitors.

AMSOIL Multi-Purpose Grease offers low-temperature fluidity for rapid cold-temperature lubrication and performance. In fact, AMSOIL GLC may be used in place of separate high-temperature and low-temperature greases.

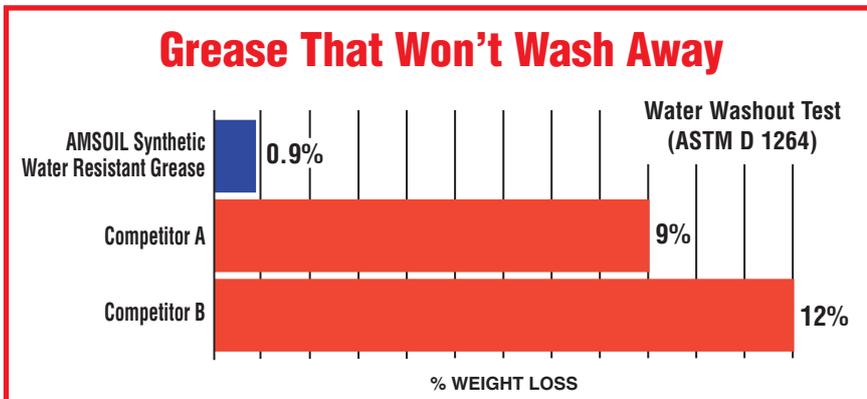


AMSOIL Multi-Purpose Grease is also available in a convenient spray formulation, ideal for protecting and lubricating hard-to-reach components.

Synthetic Heavy Duty Grease

AMSOIL Synthetic Heavy-Duty Grease is an extreme-pressure lithium-complex moly-fortified grease formulated for high-load, low-speed applications. AMSOIL Heavy Duty Grease plates out a protective shield of molybdenum to take the brunt of extreme load pressures so components don't.

AMSOIL Heavy Duty Grease also provides outstanding protection against the damaging effects of water, including rust and corrosion.



Keeping the Boat Beautiful

AMSOIL Miracle Wash, a waterless wash and polish, beautifies the boat finish in one easy step and protects it from the sun's harmful ultraviolet rays.

AMSOIL Pro-Formula Car Polish produces a brilliant mirror-like shine on boat and automotive exterior finishes with only light hand buffing. Also protects finishes from the sun's ultraviolet rays. Safe for all paints, clearcoats and fiberglass finishes.

AMSOIL Pro-Formula Vinyl and Leather Cleaner and **AMSOIL Pro-Formula Vinyl and Leather Protectant** clean and protect upholstery with wipe-on/wipe-off ease, imparting a rich luster and protection against the sun's ultraviolet rays.

AMSOIL Pro-Formula Metal Polish cleans, polishes, seals and protects chrome, aluminum, brass, stainless steel and other metal surfaces without ammonia or harsh abrasives. Wipes on and off for quick, easy metal care.



AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

