

# **AMSOIL**

*The First in Synthetics*

## **Products for Marine Applications**



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





# AMSOIL Products for Diesel Marine Applications

## Engine Oil

**AMSOIL Synthetic 15W-40 Heavy Duty Diesel and Marine Oil (AME)** provides the ultimate in diesel engine protection. Specifically formulated for long life, it resists oxidation and thermal breakdown, retains viscosity and eliminates sludge and varnish formation.

Outstanding lubricity provides unbeatable wear protection and maximum fuel efficiency. It contains special performance additives for acid and soot control. Extended drain capability reduces downtime and oil expenses.

**AMSOIL Series 3000 Synthetic 5W-30 Heavy Duty Diesel Oil (HDD)** has a fuel-efficient formula for gasoline and diesel engines. It contains the beefiest additive package of all AMSOIL motor oils and delivers better wear protection than other popular diesel oils, effectively reducing fuel consumption.

These oils contain anti-rust agents that shield engine metals from water. They are formulated with 12 Total Base Number for dependable, long-lasting acid inhibition and corrosion protection needed in the operation of diesel marine engines. Generally, motor oils average 7 TBN, offering significantly lower corrosion protection than AMSOIL diesel oils.



AME



HDD

## Fuel Additives

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

**AMSOIL Diesel Concentrate (ADF)** compensates for the quality variances of different fuels (including biodiesels) and the deficiencies of today's ULSD for better engine operation. It reduces cylinder wear, retains TBN longer and minimizes soot loading. AMSOIL Diesel Concentrate improves fuel economy and restores horsepower to like new. It is also a fuel stabilizer.

**AMSOIL Diesel Cold Flow Improver (ACF)** lowers the cold filter-plugging point by as much as 34° F and decreases the need for #1 diesel fuel that is diluted with kerosene. It contains jet-fuel-type deicer to help prevent ice formation in fuels contaminated with water. AMSOIL Diesel Cold Flow Improver is excellent for use with AMSOIL Diesel Concentrate and AMSOIL Cetane Boost Additive.



ACB

ADF

ACF

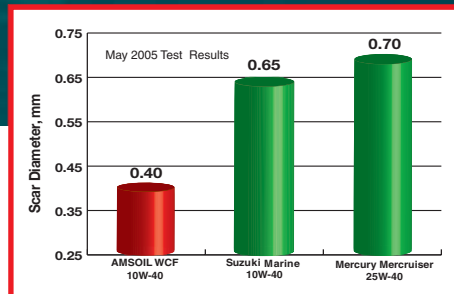
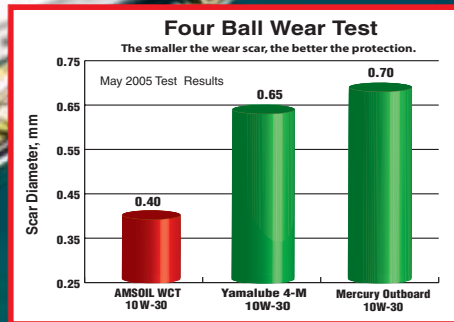
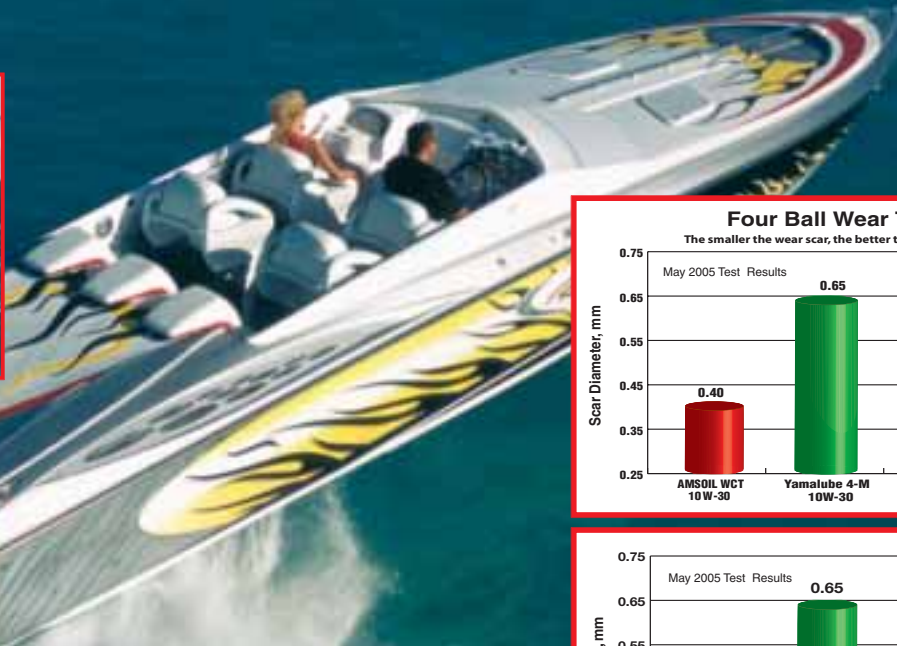
## Fisherman Saves Time and Money

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 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 by-pass filter give me the outstanding protection I demand and the extended drain intervals I want. I appreciate the savings in time and money.”



## AMSOIL Products for Four-Cycle Gasoline-Powered Marine Applications

### Additives



AST

**Gasoline Stabilizer (AST)** 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 poor injector and engine performance.



FOG

**AMSOIL Engine Fogging Oil's (FOG)** superior film retention provides stored equipment with long-term protection against corrosion and dry starts, extending engine life and reducing operating expenses. Its aerosol spray formulation offers easy and clean application, while reaching more components and offering complete distribution of the oil, something especially beneficial in applications with horizontal cylinder orientation such as outboard motors.

### Engine Oil

**Formula 4-Stroke® Marine Synthetic Motor Oils (WCT, WCF)** are formulated specifically for use in four-stroke gasoline-fueled engines used in marine applications. They offer unsurpassed wear protection, viscosity stability, low volatility and excellent low-temperature fluidity. AMSOIL Formula 4-Stroke® Marine Synthetic Motor Oils meet the "Warranty Certified" status of engine manufacturers. They are recommended for use in four-stroke outboard motors including Honda, Yamaha, Mercury, Suzuki, Johnson-Evinrude (BRP) and more. Also excellent for use in marine inboard/outboard engines, marine inboard power plants and personal watercraft.



WCT



WCF

## 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.



# AMSOIL Oils for Two-Cycle Gasoline-Powered Marine Applications

## Engine Oils



ATO

**Saber Outboard Synthetic 100:1 Pre-Mix 2-Cycle Oil (ATO)** contains lower temperature dispersants for water-cooled outboard motors. It is specifically designed for lean mix ratios in pre-mix applications. Extensive testing shows superior lubricity and cleanliness properties at lean mix ratios.



TDR

**DOMINATOR Synthetic 2-Cycle Racing Oil (TDR)** is recommended for racing applications in outboard motors. AMSOIL DOMINATOR Synthetic 2-Cycle Racing Oil is specially engineered for unsurpassed protection of high-performance two-cycle boat motors. It contains heavier synthetic base oils that provide more lubricity for “on the edge” operation. DOMINATOR reduces friction and protects pistons and bearings subjected to the rigors of racing. DOMINATOR contains an exact blend of proprietary additives for clean motor operation.



HPI

**hp Injector Synthetic 2-Cycle Oil (HPI)** is a precise synthetic formulation that provides superior performance in direct fuel injected (DFI), electronic fuel injected (EFI) and carbureted outboard motors, as well as other recreational two-cycle equipment.

hp Injector exceeds the lubrication demands of modern two-cycle engines. It contains premium synthetic base oils and MAX-DOSE additive system.



AIT

**INTERCEPTOR Synthetic 2-Cycle Oil (AIT)** is engineered specially for personal watercraft and jet boats. It excels in powersports applications and engines equipped with exhaust power valves. It contains the finest synthetic ester base oils and additives available for exceptional cleanliness properties. INTERCEPTOR is the result of years of field testing, which provided some of the most severe conditions possible. INTERCEPTOR excels at controlling exhaust valve sticking and provides outstanding overall lubrication properties.



## AMSOIL Peaks Angler's Engine Performance

Shawn Towner, Oshawa, Ontario, Canada, may practice catch-and-release as an angler, but Towner says AMSOIL products are keepers – all of them.

“Being a professional angler for the past six years, I rely on the performance of my equipment,” Towner said. “Most important are my tow vehicle and boat motor. I have switched to AMSOIL lubricants in all applications.”

He installed AMSOIL 2-Cycle Oil in his 2002 Mercury XR6 150 horsepower outboard motor on his 2002 Triton TR-185 bass boat.

“The oil has really peaked the performance of my engine,” Towner said. “There’s less smoke at start up, no plug fouling, no buildup on the carburetors. Everything is nice and clean in the engine, and I get great performance. The engine never falters once.”

*Shawn Towner*



**AMSOIL Fogging Oil and Gasoline Stabilizer are great in two-cycle engines too!**

### TWO-CYCLE OIL RECOMMENDATION

AMSOIL Product	Outboard	Snowmobile, Motorcycle & ATV	Personal Watercraft* & Jet Boat*	Chain Saw, Chop Saw & Pump	Weed Eater, Blower & Lawn Mower	Moped, Scooter & Go-Cart
<b>hp Injector (HPI)</b> TC-W3, API TC (Injection or 50:1 Pre-Mix)	Excellent	Very Good	Very Good	Not Recommended	Not Recommended	Not Recommended
<b>INTERCEPTOR (AIT)</b> API TC, JASO FC	Not Recommended	Excellent	Excellent	Good	Good	Good
<b>DOMINATOR (TDR)</b> API TC, JASO FC	Racing	Racing	Racing	Very Good	Very Good	Very Good
<b>Saber Outboard 100:1 (ATO)</b> Pre-Mix, TC-W3, API TC	Excellent Pre-Mix Only	Very Good Pre-Mix Only	Very Good Pre-Mix Only	Not Recommended	Not Recommended	Not Recommended

\*Non-TCW3

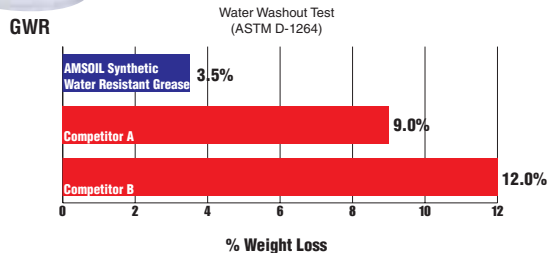


# AMSOIL Greases for Marine Applications



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

## Grease That Won't Wash Away.



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

It 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.



**Synthetic Heavy Duty Grease (GHD)** is an extreme-pressure lithium-complex moly-fortified grease formulated for high-load, low-speed applications. It 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.



GHD

GLC

# AMSOIL Filters for Marine Applications

**AMSOIL Ea By-Pass Filters (EaBP)** are high-efficiency by-pass filters that also remove soot. AMSOIL EaBP Filters have an efficiency of 98.7 percent at two microns and remove 39 percent of soot contaminants less than one micron. At normal operating RPM the EaBP Filter will filter all of the oil in a typical five-quart sump in less than 10 minutes.

The superior construction of AMSOIL EaBP Filters provides better sealing and increased longevity. To increase corrosion resistance, AMSOIL EaBP Filters have a marine powder-coated exterior with zinc-dichromate treated base plates. EaBP Filters have a nitrile HNBR gasket and an orange silicone anti-drain valve. The media is comprised of a two-stage pleated and layered cellulose/full-synthetic composite.

By-pass filtration is a valuable commodity for anyone that wants to extend drain intervals and prolong engine life. It is also beneficial to engines that are exposed to high levels of contaminants on a regular basis.



**AMSOIL Ea Oil Filters (EaO)** offer superior filtering efficiency and life to that offered by conventional full-flow oil filters. Ea Oil Filters feature advanced full-synthetic nanofiber technology, making them the highest efficiency filters available. The smaller fibers in synthetic media also have a controlled size and shape. This results in greater efficiency and capacity than cellulose filters, as well as better durability. AMSOIL Ea Oil Filters provide a higher level of engine protection, as well as extended filter change intervals. Extensive testing shows that AMSOIL Ea Oil Filters achieve a near-perfect absolute efficiency rating. The exclusive new technology used in AMSOIL EaO Filters provides filtering efficiency to 98.7 percent at 15 microns. Higher filtering efficiency leads to longer engine life.

## Marine Dual Remote Filtration System (BMK-18)

pairs an AMSOIL Full-Flow Ea Oil Filter with an AMSOIL Ea By-Pass Filter, providing the superior soot and small-particle capture of by-pass filtration and top-quality full-flow filtration on a single mounting manifold. It is the only system of this kind designed specifically for marine applications.

The AMSOIL Marine 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. The BMK-18 by-pass filter has the ability to remove small engine-harming particles and soot from the lubrication system.

The Marine Dual Remote Filtration System is designed to be used in harsh marine environments. The hose fittings are coated with a 3 ml layer of Alumiplate™ and 1 ml of zinc and yellow chromate. This Alumiplate™ coating is 10 times more corrosion resistant than standard zinc and yellow chromate plated fittings. Further, the fasteners and mounting bracket are stainless steel and the hoses are U.S. Coast Guard approved.

With the use of AMSOIL motor oils, the Marine Dual Remote Oil Filtration System and a regular program of used oil analysis and filter changes, oil changes may be much less frequent in inboard marine engines.



## Complete Filter Coverage

AMSOIL distributes Donaldson® Endurance™ heavy-duty oil filters with nanofiber technology, offering a complete line of filters for all engine, drivetrain and other marine, heavy-duty equipment and automotive applications.



# AMSOIL Gear Lube and Antifreeze for Marine Applications



AGM

**AMSOIL Synthetic Marine Gear Lube (AGM)** is an exclusive AMSOIL formulation of synthetic base oils and high-performance additives that meet the specific needs of marine applications. It is fortified with extreme-pressure (EP) additives for superior protection of fast accelerating, high-torque/horsepower engines. It protects against shock-loading from cavitation of heavily-loaded engines.

AMSOIL Synthetic Marine Gear Lube is water resistant. It maintains extreme-pressure protection even when contaminated with as much as 10 percent water. It promotes longer seal life, preventing excessive water leakage. AMSOIL Synthetic Marine Gear Lube prevents rust and is compatible with aluminum, copper and brass alloys.

AMSOIL Synthetic Marine Gear Lube is recommended for fresh and salt water applications requiring 75W-90 or 80W-90 viscosity grades and meeting API GL-4 or GL-5 performance standards.

AMSOIL Synthetic Marine Gear Lube is convenient and versatile and meets the requirements of 13 manufacturers. Examples of AMSOIL Synthetic Marine Gear Lube applications include: Outboard lower units; Mercury/Mariner, Johnson/Evinrude, Bombardier, Honda, Yamaha, Suzuki, Force/US Marine, Nissan, Tohatsu, Harbormaster Marine, Sears Gamefisher and Seagull. Sterndrives; Mercruiser-Bravo, OMC/Bombardier, Volvo-Penta, Yanmar, Konrad, Marine Drive Systems. V-Drives: Casale & Menkens. Bow & Tunnel thrusters: Harbormaster Marine. Marine Transmissions: ZF Marine Transmission.

**AMSOIL Propylene Glycol Antifreeze and Engine Coolant (ANT)** combines biodegradability, low toxicity and all-climate protection. Its revolutionary formulation provides maximum antifreeze and cooling protection in the most extreme temperatures and operating conditions. AMSOIL Antifreeze and Engine Coolant contains a proprietary poly-organic acid technology that eliminates the need for periodic changing or recharging of cooling systems. There is no need for supplemental coolant additives. It provides extended service life in all gasoline and diesel engines. AMSOIL Antifreeze and Coolant plates to metal to protect even when exposed to acids and salt spray.



ANT

# MOTHERS®

# MARINE



### Mothers Marine PowerMetal®

An extraordinary liquid metal polish that restores and protects polishable metals, including stainless steel, brass, bronze and aluminum. PowerMetal® gives that like-new shine by removing tarnish, light surface rust, mild oxidation and corrosion.



### Mothers Marine Cleaner Wax

Mothers Cleaner Wax removes light oxidation, haze and scuffs, while providing long-lasting protection and enhanced gloss to gelcoats and fiberglass. Helps protect against ultraviolet rays and environmental contaminants.

### Mothers Marine PowerPlastic

The best "all-in-one" plastic polish and protectant. Removes light scratches, oxidation, haze, stains and yellowing, leaving a long-lasting protective polymer barrier against UV rays, water spotting, airborne contaminants and more.



### Mothers Marine Black Streak Remover

Formulated to quickly and easily remove those unsightly black streaks from gelcoats, fiberglass or metal.



### Mothers Marine Wash'n Wax

A concentrated, biodegradable wash and wax for boat and RV surfaces. Specifically formulated to quickly and easily remove dirt, salt spray, grime and scum. Mothers Wash'n Wax is an environmentally friendly, low-sudsing formula.



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