



LubeWerks® 2SS Marine Recreational 2 Stroke



An extremely high performing finished fluid designed to work with conventionally-fueled, electronically fuel-injected (EFI) and direct fuel-injected (DFI) 2-cycle outboard engines for consumer, racing and military applications, **LubeWerks® 2SS Marine** has shown enhanced thermal oxidative stability and is particularly recommended for applications that require extremely high performing 2-stroke fluids that work with gasoline, jet and diesel fuel direct fuel injected (DFI) 2-stroke outboards.

LubeWerks® 2SS Marine contains components which achieves cleanliness at high temperatures. **LubeWerks® 2SS Marine** is formulated with anti-scuffing components for high speed applications.

Give your two-stroke some love!

This oil **exceeds the basic TC-W3 standard** and **meets manufacturers' recommendations** for all two-stroke outboard and personal watercraft engines, in pre-mix or oil-injected applications.

- **Premium 2-Stroke Outboard Oil is formulated** to meet the needs of low-to-mid-horsepower outboard engines under general marine operating conditions. This quality TC-W3 oil reduces rust and corrosion of internal components.
- **Premium Plus 2-Stroke Outboard Oil is formulated with** a high-concentration marine additive package to meet the needs of high-horsepower two-stroke outboards, including direct fuel-injected engines. This oil far exceeds the performance of the industry TC-W3 standard and LubeWerks engineering standards. It burns clean to reduce carbon buildup and offers superior lubrication in the most-demanding operating conditions.
- **DFI 2-Stroke Outboard Oil is a synthetic-blend oil** specially formulated to meet the needs of Mercury Marine OptiMax and other Direct Fuel Injected (DFI) two-stroke outboard engines. A carefully modified base stock blend with a synthetic additive package minimizes carbon buildup to help maintain engine performance and offers superior lubrication for increased resistance to piston scuffing.
- **Provides ultimate wear protection**
- **High resistance to oxidation**, keeping the oil fresher for longer
- **Reduces friction** to maximize horsepower
- **Superior lubrication flow and pumpability** at high and low temperatures
- **Provides improved fuel economy**
- **Excellent protection** against the formation of sludge and harmful deposits

LubeWerks® DDP TECHNOLOGY

The life force of any fleet business is its vehicles, so unplanned downtime can have a hugely damaging impact on a company's efficiency and profitability. The right lubricants and greases play a vital role in helping protect critical components against wear, deposits and corrosion, giving fleet managers the peace of mind that their equipment is protected in all conditions, even when operating at maximum load.

LubeWerks® DDP Technology Full Synthetic motor oil reduces friction to maximize horsepower, protecting against the formulation of sludge and harmful deposits, and providing improved fuel economy³. It is a high quality full synthetic motor oil specially formulated to deliver strong engine performance. **LubeWerks® Full Synthetic motor oil** is designed to protect today's sophisticated engines such as modern turbocharged engines.

APPLICATIONS AND CREDENTIALS

*All LubeWerks product performance claims are only applicable when the additive package is used with defined base oil(s), viscosity modifier(s) and other required components to produce the applicable viscosity grade in a properly blended finished fluid.

¹ - Volume treatment rates are approximate as the actual treat rate is dependent on the density of all components in a blend

A - Approved-Formal written approval provided from a governing body such as an OEM, regulatory agency or an industry organization

L - Licensable-Licensable against an active API category

M - Meets-All required testing meets defined specification requirements; however, no formal approval provided, claim is self-certified

S - Suitable for Use (SFU) - Considered suitable for use based on laboratory testing, field testing and engineering judgment (where there is no regulatory prohibition)

TYPICAL CHARACTERISTICS²

Characteristic	Typical Value	Unit	Method
Physical State	Liquid	-	-
Form	Liquid	-	-
Color/Appearance	Amber	-	-
Odor	Kerosene	-	-
NITROGEN	0.55	%	ASTM D 5291
BASE NUMBER (mgKOH/g)	13.5	NeutNo	LZ Test Method
FLASH POINT, C, PMCC	63	°C	ASTM D 93
LBS PER GAL @ 15.6 C	7.42	lbs	CALCULATED
POUR POINT, C	-48	°C	ASTM D 5950
SPECIFIC GRAVITY @ 15.6 C	0.889	SPGRAV	ASTM D 4052
SPECIFIC GRAVITY FACTOR (TCF/°C)	0.000138	SPGRAV	CALCULATED
TURBIDITY, JTU	2	JTU	LZ Test Method
VISCOSITY @ 100 C, CST	10	CST	ASTM D 445
VISCOSITY @ 40 C, CST	55	CST	ASTM D 445

²Not a manufacturing specification

LubeWerks® 2SS Marine
RECREATIONAL 2 STROKE
makes it a fun time - everytime!



ADDITIONAL RECOMMENDATIONS

* Holding the material in excess of this temperature may cause chemical degradation. Use steam for heating and tracing only when the material is in motion to avoid localized overheating. Cold Temperature Storage - If product has been stored below its pour point temperature it should be heated to 21°C/70°F before using.

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For further information, please visit www.lubewerks.com

LubeWerks® 2SS Marine RECREATIONAL 2 STROKE

keeps you right where you wanna be!

