



# 2-Cycle & 4-Cycle Engine Oils



Consult your AMALIE® Regional Manager for specific pack sizes & product availability.

Pro Two-Cycle TC-W3 RL • Synplus Synthetic Blend 2T • 2T Motorcycle X-treme 4T SG Motorcycle • 4-T X-treme Max MC



**AMALIE® Two-Cycle Engine Oils** are designed for every 2-cycle engine application and for every budget. They may be used in either pre-mix or mix-on-demand VRO oil delivery systems. **AMALIE** Two-Cycle engine oils deliver excellent service up to a 100:1 fuel-to-oil ratio for individual engines. These oils may also be used where SAE 30 or 40 oils are recommended. Always consult the owner's manual for the recommended engine oil type and for the specific fuel-to-oil mix ratios.

**AMALIE® Pro Two-Cycle TC-W3® RL Engine Oil** provides the highest level of protection for high performance, high horsepower, two cycle marine engines. This oil is certified NMMA (BIA) and it is formulated to combat wear, scuffing and deposits. It is truly a high-temperature oxidation resistant oil which protects against corrosion, ensures cleanliness, and provides lubricity for long engine life. This is an ash-less formulation that prevents carbon deposit build-up on engine parts, and protects against ring sticking. It is certified RL which means it has high film strength for improved lubricity that results in increased engine efficiency, reduced bearing wear and cleaner emissions with less smoke. **AMALIE** Pro Two-Cycle TC-W 3® RL oil is recommended for all water cooled two cycle engines, including the performance demands of Mercury, OMC Johnson/Evinrude, Yamaha, Honda, Kawasaki and many other engines requiring NMMA TC-W 3, TC-W 2, or TC-W type oils. These oils may be used in other air-cooled and water-cooled applications, such as snowmobiles, personal water craft (PWC), jet skis, lawn mowers, snow blowers, all-terrain vehicles and many others requiring API service category TC.

**AMALIE® Synplus Synthetic Blend 2T Motorcycle Oil** is a synthetic blend lubricant formulated for high performance air-cooled 2-cycle motorcycles and smaller four-cycle engines. It is truly a high-temperature oxidation resistant oil which protects against corrosion, ensures cleanliness, and provides lubricity for long engine life. This is a low ash formulation that prevents carbon deposit build-up on engine parts, and protects against ring sticking. This oil is formulated with high-temperature performance chemistry and special smoke reducing components to give you the ultimate in engine protection and environmental performance. These oils may be used in other air-cooled applications, such as snowmobiles, lawn mowers, string trimmers, air-blowers, snow blowers, all-terrain vehicles and many others requiring API service category TC, ISO-L-EGC, EGD and JASO FC, FD.

**AMALIE® 2T Motorcycle Oil** is a general-purpose lubricant designed for air-cooled, two-cycle engines where **AMALIE** Synplus Synthetic Blend performance is not required. It is formulated with premium base stocks for motorcycles and higher-temperature applications such as chain saws, weed-cutters, string trimmers, air-blowers, lawn mowers, snow blowers, and small generators. **AMALIE** 2T Motorcycle Oil mixes easily with gasoline and should be used in a fuel to oil ratio specified by the equipment manufacturer.

**AMALIE® X-treme 4T SG and AMALIE® 4-T X-treme Max MC Motorcycle Oils** are designed to provide wear protection, sludge and varnish protection, and thermal stability for superior performance in four-cycle motorcycle applications\*. Blended with high-quality base stocks and performance chemistry, the **AMALIE** 4T oils are formulated for superior operation in high-revving, high-temperature motorcycle engines and is blended to give superior performance in those engines and transmissions that have a common sump and require specialized frictional characteristics for clutches and wet brakes. **AMALIE** X-treme 4T is available in SAE 10W40 which meets or exceeds API SG and JASO MA, and the **AMALIE** 4-T X-treme Max MC 15W40 & 20W50 meets or exceeds API SN and Jaso MA.

*Some performance levels are limited by viscosity grades. Please consult the Performance Application Chart, the Inspection Data Table for the appropriate product or contact your Regional Manager for more complete information and recommendations. Consult your Regional Manager for specific pack sizes and product availability.*

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## TYPICAL INSPECTION DATA

\* AMALIE recommends AMALIE PRO High Performance Synthetic Blend 20W50 for Harley-Davidson Motorcycles.

Some performance levels are limited by viscosity grades. Please consult the AMALIE Performance Application Chart, the AMALIE Inspection Data Table for the appropriate AMALIE product or contact your AMALIE Regional Manager for more complete information and recommendations.

	API Gravity	Flash Point °C.	Viscosity cSt @100°C	Viscosity cSt @40°C	VI	Pour Point, °C.	% Weight ASH	VISUAL COLOR
Pro Two-Cycle TC-W3®RL	29.2	190	7.20	42.8	135	-39	0	BLUE-GREEN
Synplus Synthetic 2T	30.9	190	7.00	42.0	132	-39	0.08	RED
2T Motorcycle	25.0	190	10.00	103.0	91	-9	0	BLUE-GREEN
X-treme 4T SG MC 10W-40	28.0	200	13.50	92.0	147	-36	0.6	N/A
4-T X-treme Max MC 15W40	29.0	215	14.50	100	149	-30	0.8	N/A
4-T X-treme Max MC 20W50	28.0	220	18.0	160	125	-27	0.8	N/A

## PERFORMANCE APPLICATION CHART

SPECIFICATIONS	Pro Two-Cycle TC-W 3® RL	Synplus Synthetic 2T	2T Motorcycle	X-treme 4T SG Motorcycle****	4-T X-treme Max MC ****
TC-W3® RL (NMMA)	√	-	-	-	-
API:					
TA*	√	√	√	-	-
TB*	√	√	-	-	-
TC	√	√	-	-	-
SG	-	-	-	√	-
SN	-	-	-	-	√
JASO:					
FA*	√	√	-	-	-
FB	√	√	-	-	-
FC	**	√	-	-	-
FD	***	***	-	-	-
JASO 4T:					
MA	-	-	-	√	√
ISO-L:					
EGB	√	√	-	-	-
EGC	**	√	-	-	-
EGD	***	***	-	-	-

\* API TA, TB, and Jaso FA are obsolete specs, however where checked the oils meet the requirements.

\*\* meets all specifications for FC and EGC except port blocking.

\*\*\* Suitable for use for FD and EGD requirements.

\*\*\*\* AMALIE® recommends AMALIE® PRO High Performance Synthetic Blend 20W50 for Harley-Davidson