



## OTHER PRODUCTS

### FUNCTIONAL FLUID

**AMALIE**<sup>®</sup> manufactures some of the finest and competitively priced Brake Fluids and Power Steering Fluids available. **AMALIE** DOT-3 and DOT-4 premium Brake Fluids have industry high boiling points, **AMALIE** Power Steering Fluid is one of the most competitively priced, high-quality Power Steering Fluids available. **AMALIE** Antifreeze/Coolant is made with virgin ethylene glycol and a quality additive package to ensure equipment protection over a wide ambient temperature range. In addition to providing protection from -70°F to 270°F, **AMALIE** Antifreeze/Coolant helps protect all cooling system metal from rust and corrosion, including the thin, lightweight aluminum found in many newer radiators. For more information about these high quality products see the reverse side of this page.

### AUTOMOTIVE CHEMICALS

**AMALIE** Automotive Chemicals are made with robust additive chemistry and top quality carrier agents. Gas line, engine, transmission, and radiator products designed to solve a range of automotive issues are available from **AMALIE**.

### INDUSTRIAL LUBRICANTS

**AMALIE** produces a wide variety of industrial lubricants for a myriad of applications: Railroad Oils, Compressor Oils, Natural Gas Engine Oils, Sugar Mill Lubes, Form Oils, Cutting Fluids, Metal Working Oils, Power Plant Oils, and more are all available from **AMALIE**.

### SPECIALTY LUBRICANTS

**AMALIE** Specialty Lubricants are available for niche marketing applications. Our experienced technical services staff, modern laboratory, and proprietary computer modeling software can blend industry or application specific lubricants to exacting specifications.

## SERVICES

### INSTALLER PROGRAM

**AMALIE** offers one of the most user-friendly installer programs available - product, equipment, signage, flexibility and more make this the most unique program in the industry.

### ALAS

**AMALIE** ALAS+ (**AMALIE** Lubricant Analysis System) is **AMALIE**'s used oil analysis program designed exclusively for **AMALIE** XLO and **AMALIE** XLO Ultimate customers. It allows them to get an inside look at what is going on in their engine. ALAS+ measures wear metals, contaminants, viscosity and other used oil characteristics to help prevent component failure, determine optimum drain intervals and help to reduce fuel costs. ALAS+ is a comprehensive analysis program using the most modern laboratory equipment available, that provides valuable information about your engine's condition every time the oil is changed for the life of the equipment. ALAS+ supplies clear concise analytical reports in a timely fashion that include the necessary data needed to help you successfully manage your highly expensive equipment investment.

### MOTORSPORTS

**AMALIE** continues its decades-long Motor Sports affiliation for the product feedback as well as the marketing exposure. Testing and refining products for use in competition engines gives **AMALIE** valuable information about how to make better automotive lubricants. Since 2000, **AMALIE** has been a proud sponsor of NHRA Top Fuel Driver Terry McMillen. **AMALIE** is a Proud Sponsor of the NHRA **AMALIE** Oil GatorNationals - Drag Racing at its Best! **AMALIE** is also a proud sponsor of the University of Central Florida, engineering college, SAE chapter which educates students in Baja and Mini-Formula design, build, and sports racing competition.

### MONSTER TRUCK

**AMALIE** has recently entered the Monster Truck arena. With a long list of podium appearances in Mud Racing, Razin Kane was a star in the mud, but the monster truck arena was his real calling. Since 2009, owner/driver J. R. McNeal has been thrilling fans in the monster truck arena. **AMALIE** met and made an instant connection with J. R. and has signed on as one of his sponsors. Now, Razin Kane is out there showing off for his fans and helping prove that **AMALIE** oils are just as tough as JR's truck—is there a better way to prove durability than drag racing and monster truck charging, snorting and jamming?

### ARENA FOOTBALL

The Tampa Bay Storm is a 5-Time World Champion arena football team. **AMALIE** is a proud sponsor and partner of the team. Not only does the **AMALIE** family cheer the team to victory, they also own the naming rights to the Storm field, the **AMALIE** Motor Oil Field.

### PRIVATE LABELING

**AMALIE** is one of the premier private label blenders and packagers in the world. We currently produce products for many of the major oil companies, programmed distribution groups, automotive retailers, c-stores, and other technically demanding lubricant customers. Our in-house art department ensures quality and timely design services. Regardless of package size, product mix, or quality of blends, **AMALIE** offers the best private label lubricants and services anywhere.

### TECHNICAL SERVICES

**AMALIE** offers expert Technical Assistance for all matters lubricant related.

*Please contact your AMALIE<sup>®</sup> Regional Manager for more complete information and recommendations.*

## Power Steering Fluid – Brake Fluids – Antifreeze and Summer Coolant

**AMALIE® Power Steering Fluid** is a high quality formulation using highly refined base oils and select additives to provide year-round smooth and reliable performance. It provides optimum protection and service in power steering systems of both foreign and domestic vehicles. This fluid helps to control seal swelling and protects pump parts against wear while providing the proper frictional properties for optimum performance. It is designed to protect against wear, oxidation and corrosion as well as protecting against foaming, clogging and rust. It will not harm rubber hoses and stops power steering squeaks. This product is blended to mix with original equipment fluids. Some automobile manufacturers recommend use of power transmission-type fluids, such as DEXRON® III, MERCON®, and Type F. Check the owner's manual for correct fluid type.

	API Gravity	Lbs/gallon	Flash Point, °C.	Viscosity, cSt @100°C	Pour Point, °C
Power Steering Fluid	32.4	7.200	190	5.1	-10

**AMALIE® Brake Fluids** (DOT 3 and DOT 4) perform a variety of very important functions in the braking systems. They transmit the required power, minimize corrosion, lubricate, control proper seal swelling, and operate over a wide temperature range. Amalie DOT 3 Premium Brake Fluid meets or exceeds the requirements of Federal Motor Vehicle Safety Standard (FMVSS) 116 DOT 3, SAE J1703 and ISO 4925. DOT 3 Brake Fluid features a minimum boiling point (ERBP) of 450 F, and helps prevent corrosion, improve seal life and properties, and controls viscosity over a wide temperature range. Application is any system which uses DOT 3 brake fluid. Amalie DOT 4 Premium Brake Fluid meets or exceeds the requirements of FMVSS 116 DOT 4, SAE J1703, and ISO 4925. DOT 4 Brake Fluid has a minimum boiling point (ERBP) of 475 F. This fluid controls corrosion inhibitors and maintains proper seal longevity and performance. The DOT 4 fluid provides service over a very wide temperature range and is an enhanced fluid over the DOT 3 level and may be used wherever DOT 3 or Dot 4 fluids are recommended.

	API Gravity	Lbs/gallon	Dry Boiling Point (ERBP), °F	Wet Boiling Point (ERBP), °F	Viscosity cSt @-40°C Max	Viscosity cSt @-100°C Min	pH
Dot 3 Brake Fluid	1.05	8.75	480	290	1500	1.5	9.7
Dot 4 Brake Fluid	1.07	8.93	499	344	1800	1.5	8.5

\* ERBP = equilibrium reflux boiling point

**AMALIE® Antifreeze and Summer Coolant** is a full strength ethylene glycol based antifreeze/coolant for all gasoline and diesel engine coolant systems, both passenger car and heavy-duty diesel applications. This product inhibits corrosion and scale build-up on all parts including aluminum. It helps prevent freeze-up in winter and boil over in summer high heat conditions. It is compatible with commonly used hose and gasket materials. Amalie Antifreeze and Summer Coolant is formulated to meet or exceed the following specifications: Ford ESE-M97B44A/B; Cummins 90T8-4; Mack; Chrysler MS-7170; Detroit Diesel 7SE298; GM 1825M and GM 1899M; Kenworth R026-170-97; Peterbilt 8502.002; Freightliner 48-22880; White/GMC; ASTM D-3306, D-4985, D-4340; SAE J814, J1034, J1941; and Maintenance Council of American Trucking Association (ATA) RP 302B.

	API Gravity	Lbs/gallon	Freezing Point	Boiling Point (15lb Pressure cap)	Color	Water, %wt.
Antifreeze and Summer Coolant	1.12	9.40	-34 °F (50:50 H2O) -70 °F (70:30 H2O)	265 °F (50:50 H2O) 270 °F (60:40 H2O)	Yellow/ Green	4.0

**AMALIE® 50/50 Antifreeze and Summer Coolant** is a solution of water and ethylene glycol based antifreeze/coolant for all gasoline and diesel engine coolant systems, both passenger car and heavy-duty diesel applications. This product inhibits corrosion and scale build-up on all parts including aluminum. It helps prevent freeze-up in winter and boil over in summer high heat conditions. It is compatible with commonly used hose and gasket materials. Amalie 50/50 Antifreeze and Summer Coolant is formulated to meet or exceed the following specifications: Ford ESE-M97B44A/B; Cummins 90T8-4; Mack; Chrysler MS-7170; Detroit Diesel 7SE298; GM 1825M and GM 1899M; Kenworth R026-170-97; Peterbilt 8502.002; Freightliner 48-22880; White/GMC; ASTM D-3306, D-4985, D-4340; SAE J814, J1034, J1941; and Maintenance Council of American Trucking Association (ATA) RP 302B.

	API Gravity	Lbs/gallon	Freezing Point	Boiling Point (15lb Pressure cap)	Color	Water, %wt.
50/50 Antifreeze & Summer Coolant	1.54	8.9	-34 °F (50:50 H2O)	265 °F (50:50 H2O)	Yellow/ Green	49.0

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

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Some performance levels are limited by viscosity grades. Please consult the 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. Consult your Regional Manager for specific pack sizes and product availability.