



Better than it has to be®

Passenger Car Motor Oils



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

Elixir Full Synthetic • GM dexos1® • Pro High Performance Synthetic Blend • Imperial Turbo Formula • Heavy Duty • HPO Turbo • Non-Detergent



AMALIE® Elixir Full-Synthetic Motor Oils are the 21st Century oils for tough 21st Century work - protecting your engine Better Than It Has to Be! Elixir Synthetic Oils offer the ultimate in engine protection for both gasoline and diesel engines - even those that are turbo-charged or super-charged. Formulated with state-of-the-art additives and 100% synthetic base stocks, **AMALIE** Elixir Full-Synthetic Motor Oil has been carefully developed to meet the most current API Service Classification. **AMALIE** Elixir Full-Synthetic Motor Oil is formulated to meet or exceed all new car manufacturers' warranty requirements as well as stringent industry standards such as API SN/CF, ILSAC GF-5 and meets most European ACEA specifications. These oils are also formulated to exceed the standard for the Thermal Engine Oil Stability Test (TEOST MHT) and the Ford WSS M2C factory and service fill specifications. See the applications chart for specific viscosity and specification application. The special low-phosphorous level design ensures that these superior oils are environmentally friendly and will help to extend the life of the expensive catalytic converters. These full-synthetic oils offer the ultimate in engine protection for engines operating in the most extreme driving and operating conditions and in the worst ambient operating temperatures from the extreme arctic cold to the searing desert heat. **AMALIE** Elixir Full-Synthetic Motor Oil exceeds the stringent lubricating performance requirements of American, European, Korean, Japanese and other worldwide engine manufacturers.

AMALIE® Elixir Full-Synthetic 5W-30 dexos1® is specifically engineered and licensed to meet the stringent GM dexos1® engine oil specification, as well as all of the specifications outlined above for the **AMALIE** Elixir Full-Synthetic motor oils.

AMALIE® PRO High Performance Synthetic Blend Motor Oils are formulated with new and more robust engine oil chemistry combined with an optimum level of high quality synthetic and first quality mineral base stocks to provide outstanding engine protection for severe driving situations, including high-stress competition engine applications. **AMALIE** PRO High Performance Synthetic Blend Motor Oils offer superior engine protection for both gasoline and diesel engines - even those that are turbo-charged or super-charged. These high performance motor oils are engineered and formulated to meet API SN/CF - ILSAC GF-5 and meets most European ACEA specifications. These oils are also formulated to exceed the standard for the Thermal Engine Oil Stability Test (TEOST MHT) and the Ford WSS M2C factory and service fill specifications. See the applications chart for specific viscosity and specification application. These high quality motor oils also help to provide better emission control, increased fuel economy and reduced engine wear and piston deposits. They are designed to lubricate and protect well outside of the range of conventional motor oils and are compatible with a variety of different fuels including competition fuels. Week in and week out **AMALIE** PRO High Performance Synthetic Blend Motor Oils withstand the brutal pounding of professional top fuel racing. These high performance motor oils exceed the stringent lubricating performance requirements of American, European, Korean, Japanese and other worldwide engine manufacturers.

AMALIE® Imperial Turbo Formula Motor Oils are the oils that made **AMALIE** famous! In the early 1950s **AMALIE** was the first to build a multi-viscosity engine oil, and the legend continues today. **AMALIE** Imperial Turbo Formula multi-viscosity oils provide superior engine protection no matter what the operating temperature. Imperial protects domestic and imported vehicles and equipment powered with either gasoline or diesel engines - even those that are turbo-charged or super-charged. This high quality oil has been specifically formulated to meet or exceed all new car manufacturers' warranty requirements as well as the stringent industry standards API SN/CF - ILSAC GF-5 and meets most European ACEA specifications. These oils are also formulated to exceed the standard for the Thermal Engine Oil Stability Test (TEOST MHT) and the Ford WSS M2C factory and service fill specifications. See the applications chart for specific viscosity and specification application. **AMALIE** Imperial Turbo Formula will protect with equal vigor both new, modern, close-tolerance engines and older, high-mileage engines running in a wide range of operating temperatures and conditions. These high performance motor oils exceed the stringent lubricating performance requirements of American, European, Korean, Japanese and other worldwide engine manufacturers.

AMALIE® Heavy Duty Motor Oils are the oils your Drill Sergeant told you about! **AMALIE** Heavy Duty Motor Oils are single grade or straight-viscosity motor oils. They are a balanced blend of high VI base stocks and an advanced additive package to deliver superior performance. They provide thermal and oxidation stability, deposit control, anti-wear protection, corrosion protection and improved pump ability. **AMALIE** Heavy Duty Motor Oils may be used in turbo-charged, super-charged or naturally aspirated foreign and domestic engines recommending an API SN/CF and meets some European ACEA specifications. These heavy duty motor oils exceed the stringent lubricating performance requirements of American, European, Korean, Japanese and other worldwide engine manufacturers.

AMALIE® HPO Turbo Motor Oils* are high quality detergent motor oils recommended for gasoline and diesel engines manufactured by American, European, Japanese, Korean and other engine manufactures from around the world. These oils are manufactured to meet the requirements of API SG, SF/CF, CF-2 and CF-4 as well as some ACEA. They are manufactured from select blends of high quality base oils and additives to promote long engine life, protect against rust, corrosion and harmful oxidation, and are designed to help reduce engine wear and oil consumption.

The **AMALIE** HPO Turbo Multi-grade Motor Oils are coupled with a premium viscosity modifier to assure easy starts in cold temperatures and protect against oil thinning at higher temperatures. Also, these energy conserving formulations may result in fuel savings to the consumer.

*The **AMALIE** HPO Turbo Motor Oil product line is for export only and minimum order requirements apply.

AMALIE® Non-Detergent Motor Oils are a quality line of straight mineral crankcase engine oils and general purpose oils. **AMALIE** Non-Detergent Motor oils are built from high-quality mineral base stocks and may be used wherever an API SA/SB mono-grade oil is recommended.

AMALIE® High Mileage Motor Oils are specially designed with enhanced additives to help reduce leaks and oil consumption in worn or higher mileage engines. These oils have been formulated with very active ingredients to help clean out sludge buildup and keep the engines running clean and with increased efficiency and power. It is specially designed for engines with over 75,000 miles. The modern additive package incorporated in the oils also meets or exceeds the newer and earlier performance ratings. This oil also protects domestic and imported vehicles and equipment powered with either gasoline or diesel engines - even those that are turbo-charged or super-charged. This high quality oil has been specifically formulated to meet or exceed all new car manufacturers' warranty requirements as well as the stringent industry standards API SN/CF, and for Resource Conserving 5W-30 and 10W-30 grades, ILSAC GF-5. These oils are also equipped for use in most European ACEA specifications. As with all **AMALIE** formulated oils, these oils also meet earlier API ratings such as SM, SL, SG, etc. **AMALIE** High Mileage Motor Oils will protect with equal vigor both new, modern, close-tolerance engines and older, high-mileage engines running in a wide range of operating temperatures and conditions. These oils are also formulated to exceed the standard for the Thermal Engine Oil Stability Test (TEOST MHT) and the Ford WSS M2C factory and service fill specifications. **AMALIE** High Mileage Motor Oils exceed the stringent lubricating performance requirements of most American, European, Korean, Japanese and other worldwide engine manufacturers.

TYPICAL INSPECTION DATA

	API Gravity	Flash Point, °C.	Viscosity cSt @100°C	Viscosity cSt @40°C	VI	Pour Point °C.
Elixir Full-Synthetic						
0W-20	34.9	210	6.50	34.0	160	-45
0W-30	35.0	210	10.20	57.0	170	-45
0W-40	35.0	210	13.20	75.5	170	-45
5W-20	35.0	210	6.50	34.0	160	-42
5W-30	35.0	210	10.00	58.0	160	-42
5W-50	34.0	220	17.50	110.0	150	-39
15W-50 *	33.7	230	17.50	150.0	150	-39
Pro High Perf Synthetic Blend						
5W-20	31.3	210	7.40	42.0	140	-42
5W-30	33.5	210	10.30	57.0	168	-42
5W-40	32.5	210	13.90	86.0	165	-39
5W-50 *	32.0	210	17.00	107.0	170	-39
10W-30	29.8	210	10.00	61.0	149	-36
10W-40	29.9	210	13.40	84.0	160	-36
15W-50	29.2	230	17.70	126.0	155	-33
20W-50	29.0	235	17.40	152.0	126	-30
50	28.0	240	17.50	178.0	107	-12
70	26.3	250	27.50	350.0	107	-9
Imperial Turbo						
5W-20	31.3	200	6.50	37.0	130	-42
5W-30	30.5	200	10.50	60.0	145	-39
10W-30	29.5	205	10.50	69.0	140	-35
10W-40	30.0	205	13.50	97.0	145	-32
15W-40	29.0	215	14.00	100.0	135	-27
20W-50	28.9	220	18.00	165.0	125	-18
Heavy Duty						
30	28.5	220	11.80	103.0	103	-21
40	28.0	230	14.60	141.0	103	-15
50	27.5	240	17.90	189.0	103	-12
HPO Turbo **						
5W-30	30.5	190	10.20	60.0	157	-39
10W-30	29.5	200	10.50	69.0	140	-35
10W-40	30.0	200	13.50	97.0	145	-32
15W-40	29.0	210	14.00	100.0	135	-27
20W-50	28.9	220	18.00	165.0	125	-18
25W-50	29.6	230	18.00	165.0	125	-18
40	28.0	220	14.60	141.0	100	-12
50	27.5	230	17.90	189.0	100	-12
Non-Detergent						
30	23.2	200	10.10	-	-	-12
40	21.8	210	13.50	-	-	-10
50	20.6	220	17.50	-	-	-8
High Mileage Motor Oil						
5W-30	32.0	210	10.60	64.0	150	-36
10W-30	30.8	210	10.70	65.0	150	-36

* Minimum Order Requirements May Apply. ** HPO Turbo Motor Oil Product Line is for export only, minimum order requirements may apply.

PERFORMANCE APPLICATION CHART

SPECIFICATIONS	Elixir Full Synthetic	PRO High Perf Syn Blend	Imperial Turbo	Heavy Duty	HPO Turbo	Non-Detergent	High Mileage
API:							
SN, SM, SL, SJ	√	√	√	√	-	-	√
SG, SF	√	√	√	√	√	-	√
SB	√	√	√	√	√	√	√
CF/CF-2	√	√	√	√	√	-	√
CF-4	-	-	-	-	√	-	-
ILSAC:							
GF-5, GF-4/GF-3/ GF-2	√	√	√	-	-	-	√
ACEA:							
A3/B4, A3/B3	*	*	*	*	-	-	*
A5/B5, A1/B1	*	*	*	*	-	-	*
C4, C3, C2, C1	*	*	*	*	-	-	*
Ford:							
M2C 946 A	5W-30	5W-30	5W-30	-	-	-	-
M2C 929 A (M2C 205A)	5W-30	5W-30	5W-30	-	-	-	-
M2C 945A	5W-20	5W-20	5W-20	-	-	-	-
M2C 930A (M2C 153H)	5W-20	5W-20	5W-20	-	-	-	-
DaimlerChrysler:							
MS 6395K	√	√	-	-	-	-	-
Mercedes Benz							
MB 229.1	√	√	-	-	-	-	√
MB 229.3	√	5W-30	-	-	-	-	5W-30
MB 229.31	5W-30, 5W40	-	-	-	-	-	5W-30
MB 229.5	√	√	-	-	-	-	5W-30
MB 229.51	5W-30, 5W40	-	-	-	-	-	5W-30
General Motors:							
GM dexos1®	5W-30	-	-	-	-	-	-
GM 4718M	√	√	√	-	-	-	√
GM 6094M	√	√	√	-	-	-	√
Volkswagen:							
VW 50200	√	√	√	-	-	-	√
VW 50300	√	5W-30	5W-30	-	-	-	5W-30
VW 50500	√	√	√	-	-	-	√
VW 50501	√	5W-30	5W-30	-	-	-	5W-30
VW 50600	√	5W-30	5W-30	-	-	-	5W-30
VW 50700	5W-30	-	-	-	-	-	5W-30
BMW:							
LL-O/M54	√	√	√	-	-	-	√
LL-04	√	-	-	-	-	-	5W-30
CID AA-52039	√	√	√	√	-	-	√
Mil-L-2104-B	√	√	√	√	√	-	√
Mil-L-46152	√	√	√	√	√	-	√