

## **Gear Oils**

**Elixir Full Synthetic GL-5 75W-90 - Tri-Vis Plus+ MP Hypoid GL-5 75W-85W-140**  
**Limited Slip MP Hypoid LS GL-5 Gear Oil - Hypoid Gear Multi-Purpose GL-5 Lubricant**  
**SMG Lubricant GL-1 - Limited Slip Axle Concentrate**

8/19/2011 revision

**Amalie Elixir Full Synthetic GL-5 75W-90** is the ultimate gear oil system meeting all OEM performance targets and provides maximum protection for all gear sets as well as helping to improve fuel economy while promoting longer gear life. Amalie Elixir Full Synthetic GL-5 75W90 is a 100% synthetic base oil product coupled with a robust additive system and an improved viscosity modifier to give you a high viscosity index, low pour-point, synthetic gear oil providing reduced friction, fuel savings, better low temperature start-up protection and longer life than most conventional gear oils. This superior high performance gear oil is formulated to meet the requirements of the American Petroleum Institute's (API) Service Classification GL-5 and MT-1; MIL-PRF-2105E; SAE J-2360: Dana Corp. (including Eaton Axles); Eaton 750,000 mile warranty coverage and 500,000 mile oil drain intervals capabilities; General Electric D 50E9C; (P&H) 474; Mack Truck GO-J Plus; ArvinMeritor (including former Rockwell axels) and Rockwell International 0-76-E.

**Amalie Elixir Tri-Vis Plus GL- 5 75W-85W-140** is a wide range multi-graded gear lubricant (75W-85W-140) that meets most of the field performance requirements as defined by the API and the SAE and listed in the Amalie Performance Chart. Because of its robust additive system and its scientifically improved viscosity modifier additive system, this oil may replace the use of 80W-90 and 85W-140 gear oils that currently may be found in use in many mixed fleets.

**Amalie Limited Slip MP Hypoid LS GL-5** Gear Oil meets the API GL-5 hypoid gear performance classification, plus it contains limited-slip (LS) chemistry to prevent/reduce differential chatter as well as being formulated from the highest quality base oils and a new and improved GL-5 additive system.

**Amalie Hypoid Gear Multi-Purpose GL-5** Lubricant is the most price/performance competitive system used in the industry; it satisfies the basic rear axle performance needs of various final drive builders. If you are looking for a Min/Max product, you have found it – Maximum gear oil protection at Minimum cost.

**Amalie SMG Lubricant GL-1** is a high quality straight mineral gear oil formulated to meet the API GL-1 performance classification and to satisfy the basic gear oil demands of many high-performance over-the-road transmissions as well as many older transmission units.

**Amalie Limited Slip Axle Concentrate** is a high-performance, highly concentrated gear oil supplement and friction modifier additive package that may be used to help treat limited-slip axles that have chatter problems.

*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 District Manager for more complete information and recommendations.*

## TYPICAL INSPECTION DATA

	API Gravity	Flash Point, C. (remove D92)	Viscosity, cSt.		VI	Brookfield Viscosity, cP.			Pour Point, C
			@100C	@40C		@-40C	@-26C	@-12C	
Elixir Full Synthetic GL-5									
75W-90	27.5	210	17.00	130.0	142	<150,000	-	-	-45
Tri-Vis Plus+ MP Hypoid GL-5									
75W-85W-140	27.7	190	24.20	245.0	125	<120,000	-	-	-45
Limited Slip MP Hypoid LS GL-5									
80W-90	27.5	230	14.90	148.0	100	-	<150,000	-	-36
Hypoid Gear Multi-Purpose GL-5									
75W	28.0	190	5.5	32.0	110	<150,000	-	-	-45
75W-90	27.6	200	14.00	120.0	116	<150,000	-	-	-45
80W-90	27.6	230	14.20	142.0	97	-	<150,000	-	-30
85W-140	25.5	250	26.20	352.0	98	-	-	<150,000	-24
SMG Lubricant GL-1									
85W-90	29.0	230	-	-	-	-	-	<150,000	-
140	31.0	250	145.00	300.0	460	-	-	-	-
250	27.0	250	-	-	-	-	-	-	-
Limited Slip Axle Concentrate	22.3	240	6.00	30.0	132	-	-	-	-

## PERFORMANCE APPLICATION CHART

SPECIFICATIONS	Elixir Full Synthetic GL-5	Tri-Vis Plus+ MP Hypoid GL-5	Limited Slip MP Hypoid LS GL-5	Hypoid Gear MP GL-5	SMG Lubricant GL-1	Limit Slip Axle Concentrate
API:						
GL-1	√	√	√	√	√	-
GL-2/3	√	√	√	√	-	-
GL-4	√	√	√	√	-	-
GL-5	√	√	√	√	-	-
Mil-PRF-2105E	√	√	√	√	-	-
Mack GO-J	√	√	√	√	-	-
Mack GO-J Plus	√	-	-	-	-	-
Limited Slip:						
M2C119A	-	-	√	-	-	*See below
M2C154A	-	-	√	-	-	*See below
Outboards and Stern Drives	√	√	√	√	-	-

\* Add 2 ounces per quart needed to passenger car LS axle for noise reduction  
(Add 4 ounces per quart needed for heavy duty truck axles)