PRODUCT DATA SHEET
LUBRICANTS

VP HI PERFORMANCE GEAR OILS

VP Hi Performance Gear Oils are formulated using high quality base stocks and an optimized performance additive system for automotive/heavy duty gear oils.

VP Hi Performance Gear Oils were developed to meet the key performance requirements for manual transmissions and hypoid axles

VP Hi Performance Gear Oils are manufactured using a low-odor performance additive, reducing the pungent aroma typically associated with gear oils.

VP Hi Performance Gear Oil SAE 75W-90LS is a full synthetic, extreme pressure, multi-purpose GL-5 gear oil that meets the manufacturer's performance requirements requiring an API GL-5 lubricant. It is designed to minimize wear under high speed, high load and low speed, high torque conditions and provides limited slip protection reducing chatter with improved traction.

VP Hi Performance Gear Oil SAE 75W-140LS is a full synthetic, high performance GL-5 gear oil providing excellent protection against high speed scoring, low speed/high torque wear and heavy shock loading. In addition, it provides outstanding shear stability, low temperature fluidity, low frictional drag, resistance to foaming and provides limited slip protection. It is recommended for conventional manual transmissions, differentials, final drives and other gear cases of race cars, trucks, buses, cars, farm tractors and earth moving equipment where an GL-5 gear oil is recommended.

VP Hi Performance Classic Car Gear Oil SAE 80W-90 is a mineral based, API GL-4 lubricant designed for use with 'yellow metals' in synchronizers, thrust washers, bushings and other components typically found in classic manual transmissions and transaxles. This product should not be used in an application requiring a GL-5 gear oil.

VP Hi Performance Gear Oil SAE 80W-90LS is a mineral based, extreme pressure lubricant that meets the manufacturer's performance requirements requiring an API GL-5 gear oil. It is designed to minimize wear under high speed, high load and low speed, high torque conditions and provides limited slip protection reducing chatter with improved traction.

VP Hi Performance Gear Oil SAE 80W-140LS is a semi-mineral based, high performance GL-5 gear oil with anti-scuff, anti-wear and extreme pressure properties providing outstanding protection against low speed/high torque wear, limited slip and high-speed scoring applications. It is recommended for conventional manual transmissions, differentials, final drives and other gear cases of race cars, trucks, buses, cars, farm tractors and earth moving equipment where an GL-5 gear oil is recommended.

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TYPICAL PROPERTIES

High Performance Gear Oils						
Product Number	**2885 (QT.)**	**2707 (QT.)**	**2703 (QT.)**	**2895 (QT.)**	**2705 (QT.)**	**Test Method**
SAE Grade	75W-90	75W-140	80W-90	80W-90	80W-140	-
Performance Level	GL-5 Limited Slip	GL-5 Limited Slip	GL-4	GL-5 Limited Slip	GL-5 Limited Slip	-
Viscosity@40°C, cSt	96.9	195.8	146.5	145.7	286.0	ASTM D445
Viscosity@100°C, cSt	14.6	27.2	14.4	14.5	26.2	ASTM D7042
Viscosity Index (VI)	157	176	96	98	120	Calculated
Specific Gravity @ 60°F	0.8526	0.8542	0.8803	0.8853	0.8270	Calculated
API Gravity	34.5	34.2	29.2	28.3	39.6	Calculated
Brookfield Viscosity, cP	<150,000 (-40oC)	<110,000 (-40oC)	<150,000 (-26oC)	<150,000 (-26oC)	<120,000 (-26oC)	ASTM D2983
KRL (20hr)	ND	Stay in Grade	ND	ND	Stay in Grade	CEC L45-A-99
Rel. Viscosity Loss, %	ND	1	ND	ND	4	-
Flash Point, °C	200	205	240	230	215	ASTM D92
Pour Point, °C	-51	-51	**-30**	**-31**	-36	ASTM D97
Color	L1.0	L1.0	L4.0	L4.0	L2.5	ASTM D1500
Zinc, ppm	0	0	0	0	0	ASTM D5185
Calcium, ppm	0	0	0	0	0	ASTM D5185
Phosphorus, ppm	220	220	115	215	215	ASTM D5185
Sulfur, ppm	7500	7450	4850	8250	7450	ASTM D5185

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information above is subject to change without notice.

Health and Safety:
This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS).