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GL-4, GL-5 Multi-Purpose Gear Oils

FORMULA 500® Multi-Purpose Gear Oils are used for the lubrication of gears operating under severe conditions, including automotive applications. High quality HVI base stocks blended with a sulfur-phosphorous extreme pressure additive package provide superior performance including anti-weld, anti-scuff, and anti-wear properties.

FORMULA 500® Multi-Purpose Gear Oils are available in API GL-4 and GL-5 performance levels. The GL-4 level is designed for spiral-bevel and hypoid gears under moderate speeds and loads. This level is recommended for some manual transmissions and transaxles.

FORMULA 500® GL-5 Multi-Purpose Gear Oils have multi-grade characteristics and are recommended for hypoid gears in moderate and severe service, including shock-loading, and some manual transmissions. GL-5 Gear Oils also meet or exceed the MIL-L-2105D specification, API MT-1 for truck manual transmissions, Meritor O76-D/A, MAN 342 Type M1/M2, Mack GO-J, and SAE J2360.

FORMULA 500® GL-4, GL-5 Multi-Purpose Gear Oils are not intended for use in automotive gear boxes that require a limited slip gear oil, these applications are covered by FORMULA 500® LS GL-5 gear oils. Always follow manufacturers' recommendations for correct type and viscosity grade of gear lubricant.

Typical Properties:

Product: FORMULA 500® GL-4 and GL-5 Gear oils				
Product Code	1421	1422	1411	1412
API Classification	GL-4	GL-4	GL-5	GL-5
SAE Viscosity Grade	90	140	80W-90	85W-140
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	14.8	30.2	15.6	27.2
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	149.5	415.0	160.7	378.1
Viscosity Index (ASTM D-2270)	98	98	99	97
API Gravity (ASTM D-1298)	28.3	28.0	28.2	26.3
Pour Point, °C (ASTM D-5949)	-30	No Data	-33	-21