

GearGuard II™



Product Description

D-A GearGuard II™ is designed to meet the lubrication needs of high performance gear trains and differentials requiring the use of an extreme pressure lubricant, including limited-slip type configurations. This product is formulated with high quality base oils and carefully selected additives resulting in a product which will provide maximum antiwear protection under heavy loads while also guarding against rust and corrosion even when the system is idle. Special inhibitors are also present which limit oil oxidation even at high operating temperatures.

D-A GearGuard II™ is available in two straight and two multigrades to provide optimum protection in all kinds of weather conditions. The two multigrades are formulated without the use of polymer additives to ensure maximum in-service viscosity retention and minimized gear wear.

Product Features and Benefits

Unique balance of extreme pressure additives *extends equipment life through minimized gear wear.*

Limits shock load wear during equipment start-up and acceleration, as well as during extreme loading conditions, *by minimizing metal-to-metal contact, providing exceptional shock load protection during low speed/high-torque service.*

Chemically compatible with soft sensitive yellow metals and antirust performance in severe service environments, *controls rust and corrosion of all types of metal surfaces.*

High quality base oils and antioxidant additive *produce a lubricant with excellent resistance to high temperature degradation for longer lubricant life.*

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Service Applications

All applications requiring a GL-5 or MIL-PRF-2105E lubricant including:

Dana (Spicer) differentials	Eaton (Fuller) differentials
Mack GO-J	Rockwell differentials
Ross and Saginaw steering systems	Wheel bearings

Off-highway mobile equipment and industrial machinery requiring an EP gear lubricant
Most automobile manual transmissions and differentials, including limited-slip

Typical Properties:

SAE Grade	80W-90	90	85W-140	250*
API Service Classification	GL-5	GL-5	GL-5	GL-2
AGMA Lubricant Number	4EP	5EP	7EP	8EP
Viscosity				
@ 210°F, SUS	76.5	100.0	140	231
@ 100°F, SUS	750	1,232	2,200	5,880
@ 100° C, cSt	14.1	20.0	28.3	47.8
@ 40° C, cSt	140.3	240	415	1,084
@ -12° C, cP	—	—	57,500	—
@ -26° C, cP	139,000	—	—	—
Viscosity Index, Minimum	95	95	95	95
Flash Point °F (°C)	430 (221)	445 (229)	460 (238)	450 (232)
Channel Point, Pass @	-30°F (-35°C)	-20°F (-29°C)	-5°F (-20°C)	15°F (-9°C)
API Gravity @ 60°F	27.2	26.5	25.5	20.7
Copper Strip Corrosion	1b	1b	1b	1b
Timken OK Load, Pounds	50	50	50	50
Anti-Scoring Performance Test (L-42)				
Ring Gear, % Scoring	Nil	Nil	Nil	—
Pinion Gear, % Scoring	Nil	Nil	Nil	—
High Speed-Low Torque Test (L-37)				
Gear Tooth Surface Condition	No Distress	No Distress	No Distress	—
Low Speed-High Torque Test (L-37)				
Gear Surface Fatigue	None	None	None	—
Gear Wear	Trace	Trace	Trace	—
Moisture Corrosion Axle Test (L-33)				
Gear & Bearing Condition	No Corrosion	No Corrosion	No Corrosion	—
Oxidation Stability (TOST)	Excellent	Excellent	Excellent	Excellent
FZG, Pass Stage	12	12	12	12

*Not recommended for automotive differentials.

**To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823)
Or Fax orders to (317) 923-3884**

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