



PREMIUM FLEET SYNTHETIC GEAR LUBRICANTS

DESCRIPTION

49 NORTH® PREMIUM FLEET SYNTHETIC GEAR LUBRICANTS are designed for use in heavy duty manual transmissions, final drives and stationary gear boxes exposed to extreme cold weather startup conditions and continual high speed, high temperature operation.

QUALITIES

49 NORTH® PREMIUM FLEET SYNTHETIC GEAR LUBRICANTS are blended from synthetic base oils that are engineered to yield the high viscosity indices and extremely low pour points that are proven to result in more than 5% fuel cost savings for many operators, by radically reducing drive train friction. 49 NORTH® PREMIUM FLEET SYNTHETIC GEAR LUBRICANT grades SAE 75W-90 and 80W-140 exhibit anti-rust, anti-corrosion, water separation and shear stability. They are compatible with seals, paints, coatings and other materials commonly used in automotive and fleet equipment. The superior oxidation resistance reduces sludge, varnish and other deposits dramatically - thereby meeting the requirements of Eaton and Rockwell for drain extensions to 804,672 km.

APPLICATIONS

49 NORTH® PREMIUM FLEET SYNTHETIC GEAR LUBRICANT grades SAE 75W-90 and 80W-140 are recommended for all applications specifying API GL-5 and MT-1 gear lube, where heat and wear present major concerns, including differentials, including slip units, manual transmissions for which hypoid type lubricants are required and transfer cases for heavy equipment including trucks, tractors, industrial gear drives, automobiles and farm machinery.

49 NORTH® PREMIUM FLEET SYNTHETIC GEAR LUBRICANT grades SAE 75W-90 and 80W-140 meet and/or exceed the following performance requirements:

Meets and/or Exceeds Requirements For:

API GL-5, MT-1
Arvin Meritor 0-76N
Eaton RR E500/Shaes256
General Electric D 50E9C
Harnishfeger (P&H) 474
International TMS-6816
Mack GO-J (80W-140)
Mack GO-J Plus (75W-90)
SAE J2360
Scania STO 1:0
U.S. MIL-L-2105D
U.S. MIL-PRF-2105E

49 NORTH® PREMIUM FLEET SYNTHETIC GEAR LUBRICANT grade SAE 50 is recommended for heavy duty service in manual transmissions where the manufacturer recommends engine oils or GL-1 to GL-4 lubricants. This grade meets and/or exceeds the following performance requirements:

Meets and/or Exceeds Requirements For:

API GL-4, MT-1
Arvin Meritor Ext. Drn. 0-81
Eaton RR E500 PS 081/164 & PS 164 Rev 7
International TMS-6816
Mack TO-A
MAN 341 SL
Meritor ZF Freedom Line
Rockwell International 0-80
Volvo STD 97305

Lubricants For All Reasons

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Product Code: 3180
3181
3182

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TYPICAL PROPERTIES

SAE GRADE	75W-90	80W-140	50
Product Code	3180	3181	3182
API Classification	GL-5	GL-5	GL-4
API Gravity (ASTM D - 4052)	33.4	31.5	30.0
Pounds Per Gallon	7.4	7.23	7.28
Viscosity (ASTM D - 445)			
cSt at 40° C	122	284	135
cSt at 100° C	16.6	30.6	17.2
SUS at 100° F	627	1476	
SUS at 210° F	86	149	
Viscosity Index (ASTM D- 2270)	147	146	143
Brookfield Viscosity (ASTM D - 2893)			
cPs at -18° C	5,800	20,500	20048
cPs at -26° C	-	75,000	-
cPs at -40° C	125,000	-	-
Flash Point (ASTM D - 92) °F (°C)	405 (204)	410 (210)	456 (236)
Pour Point (ASTM D - 97) °F (°C)	-65 (-54)	-54 (-48)	-60 (-50)
Foam Test (ASTM D 130)	Pass	Pass	Pass
Colour (ASTM D1500)	1.5	1.5	8.0
Copper Strip Corrosion (ASTM D 130)	1a	1a	1a
Rust Protection (ASTM D A/B)	Pass	Pass	Pass
Four Ball EP (ASTM D 2782)			
Weld Point, kgf	400	400	
Load Wear Index	64	64	
FZG (ASTM D 5182) Stage Passed	12	12	
Timken OK Load (ASTM D 2782), lbs.	50	85	

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