

745 Syn-O-Gen EP 75W90 Gear Lubricant

DESCRIPTION:

745 Syn-O-Gen EP 75W90 is 100% pure PAO synthetic GL-5 gear lubricant for heavy-duty extreme pressure performance in all types of gear drives and specifically for rear axles.

COMPOSITION:

745 Syn-O-Gen is compounded using a PAO synthetic basestock which has a high viscosity index and exceptionally low pour point. This lubricant contains extreme pressure additives, as well as rust, oxidation and corrosion inhibitors to protect gears and bearings operated under a wide variety of load conditions. The high and low temperature performance of this product greatly exceeds that of conventional SAE 80W-90 and SAE 90 hypoid gear lubricants.

PERFORMANCE CHARACTERISTICS:

745 Syn-O-Gen outperforms conventional gear lubricants to promote longer gear life and better operating economy. Some of the major advantages are:

Increased gear life - 745 Syn-O-Gen's extreme pressure (EP) performance results in longer gear life by providing extremely high film strength and superior high and low-temperature performance. It also has anti-rust and anti-corrosion properties to further promote extended gear and bearing life. This lubricant exhibits excellent demulsibility and shear stability.

Better operating performance - As a result of the superior lubricating properties of Syn-O-Gen EP, improved fuel mileage can be gained. When used in manual transmissions, sub-zero shifting is much easier.

Extended drain, all-season lubrication - With extremely low channel points and high viscosity indices, 745 Syn-O-Gen provides excellent performance over a broad temperature range. Further, since Syn-O-Gen EP resists oxidation, it will last significantly longer than conventional gear oils. No. 745 passed a 300,000 mile plus field test in an Eaton DSP40 differential. The differential started the test at 450,000 +miles of life already on the gearbox.

Reduced maintenance and down-time - All of the foregoing advantages of Syn-O-Gen EP translates directly into reduced maintenance and less down-time.

USES:

745 Syn-O-Gen meets, then exceeds the following performance requirements (SFU):

API GL-4
SAE J2360
DTFR 12B140
Mack GO-J Plus
MAN 341 Type GA2
MAN 342 Type S-1
Scania STO 2:0A FS
VW G 052 911

API MT-1
DAF Truck Axles
Ford M2C-175A
MB 235.8/MB 235.0
MAN 341 Type Z-2
Meritor O-76N
Scania STO 1.1G
ZF TE-ML 02B/05A/07A/12B/12L/12N/16F/17B/19C/21B

API GL-5
DFS 93K219.01
IVECO 18-1805 (Replaces RAS1)
MAN 341 Type E3
MAN 342 Type M3
MIL-L 2105 E/D
Volvo 97312

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APPLICATIONS:

745 Syn-O-Gen EP is recommended for applications where heat and wear present major problems. These applications include manual transmissions where EP type lubricants are recommended, differentials including limited slip, and transfer cases for heavy equipment, trucks, tractors and industrial gear drives. Automobiles light-duty trucks and farm machinery are other potential uses of Syn-O-Gen EP Lubricants.

TYPICAL SPECIFICATIONS:

Property	Product Data
SAE Viscosity	75W-90
AGMA	4 EP
40°C, cSt (mm ² /sec)	132
100°C, cSt (mm ² /sec)	18
Viscosity Index	152
Brookfield Viscosity	
-18°C, cP	7,125
-40°C, cP	140,000
Flash Point, °F	405
Pour Point, °F	-50
Channel Point °F	-60
Density at 15.6 degrees C, g/cm ³	0.8870
Foam, Passed all sequence tests (I/II/III)	0/0
Copper Strip Rating, 3hr at 100°C	1b
Rust Test in L-33-1, ASTM D7038	Pass
Precipitation Number	None
Timken Load Test, ASTM D2782, lbs	65
4 Ball Wear Scar, ASTM D4172	0.4
Weld Point, ASTM D2783 (kg)	400
Load Wear Index	90
Demulstibility, ASTM D2711	
Free Water	83mL
Emulsion	0 mL
Water in Oil	0.1%
Thermal & Oxidative Stability, L-60-1 Test and S-200 Test	Pass
KRL Shear Viscosity - CEC L-45-A-99, 20 Hours (min is 13.5)	14
L-42 Shock Load Test	Pass
ASTM D8165 Wear Test	Pass
FZG 14 Stage Rating, ASTM D5182	14
Total Wt. Loss	41 mg