

Product Description

D-A SynSure™ synthetic lubricants are transportation industry-oriented gear oils which focus on the critical needs of heavy-duty truck transmissions and differentials. D-A SynSure provides superior lubricant protection in the most severe service, including sub-arctic to desert conditions. SynSure is ideal for use in truck transmissions and axles operating with equipment manufacturer extended warranties in extended drain service.

D-A SynSure out-performs conventional gear lubricants to promote longer gear life and better equipment operating economy.

Product Features and Benefits

D-A SynSure™ SAE 75W-90 and SAE 80W-140

Extreme pressure GL-5 synthetic gear lubricants provide excellent lubricant flow at all operating temperatures, including sub-zero service. (SAE 75W-90)

Contains extreme pressure additives as well as rust and oxidation inhibitors to provide superior gear and bearing protection under a wide range of operating conditions.

Extremely high film strength and outstanding low temperature performance ensure extra gear life in the toughest service.

Resists oxidation even during the hottest climatic conditions to last significantly longer than conventional gear oils.

Exceptional shear stability retains viscosity and film strength under severe operating conditions to prevent wear.

Enhanced friction reduction properties improve fuel economy and reduce operating costs.

D-A SynSure™ SAE 50

A fully synthetic, SAE 50 heavy-duty manual transmission lubricant designed to extend lubricant service life and transmission drain intervals.

Superior lubricating and frictional characteristics improve fuel mileage and give better operating performance when used in manual transmissions.

Provides excellent performance over a wide temperature range including sub-zero service, promoting smoother, easier shifting.

Excellent load carrying, anti-wear, and performance extend transmission life and reduce operating costs.

Extended drain and service interval capability provides lower operating costs.

Outstanding oxidative and thermal stability extend fluid life and improve efficiency.

Excellent protection from copper corrosion and its alloys protects and extends the life of synchronizers.

PRODUCT AT A GLANCE

SAE 75W-90 and SAE 80W-140

- GL-5 Gear Oils
- Use in Heavy Duty Truck Transmissions and Differentials
- Severe Service, Extreme Temperature Gear Oils
- Synthetic EP Gear Oil

SAE 50

- Manual Transmission lubricant
- Synthetic Non-EP Gear Oil



D-A Lubricant Company, Inc.

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Typical Applications

D-A SynSure™ SAE 75W-90 and SAE 80W-140

Heavy duty axles and final drives requiring API GL-5 & MT-1 performance.
On-highway light and heavy-duty trucks, buses and vans.
Off-highway equipment including: construction, mining, quarrying and agriculture.
Heavy-duty industrial gear drives including hypoid gears.
Differentials, final drives, transfer cases and other gear applications where lubricants meeting SAE J2360 (MIL-PRF-2105E), API Service GL-5, EP gear lubricants are recommended.
Recommended for equipment such as winch reduction gears and crawler vehicle propulsion gear drives that are exposed to severe low temperatures.
Use as a companion with D-A SynSure SAE 50 in transmissions for maximum drivetrain life and fuel economy improvement.
Recommended where extended service intervals and warranties are required.

D-A SynSure™ SAE 50

Heavy duty manual transmissions where extended service intervals and warranties are required.
On-highway commercial light and heavy duty trucking, buses and vans.
Off-highway equipment including: construction, mining and agriculture.
Use as a companion with D-A SynSure SAE 75W-90 and SAE 80W-140 in rear axles for maximum component life, service efficiency, and fuel economy improvement.

Meets or Exceeds Industry Specifications:

D-A SynSure™ SAE 50: API MT-1

D-A SynSure™ SAE 75W-90: API GL-5/MT-1; MIL-PRF 2105E, Scania STO 1:0, SAE J2360, ZF TE-ML 07A/08

D-A SynSure™ SAE 80W-140: API GL-5/MT-1; Dana SHAES 256 Rev. A, MIL-PRF 2105E, Scania STO 1:0, SAEJ2360

Has the Following Approvals:

D-A SynSure™ SAE 50: Eaton PS-164 Rev 7, Mack TO-1 Plus, International TMS-6816, ZF Freedom Line

D-A SynSure™ SAE 75W-90: Arvin Meritor O-76N; Eaton RoadRanger E500; Dana SHAES 256 Rev C, Dana SHAES 429; International TMS-6816; Mack GO-J Plus; Mercedes Benz 235.8; ZF TE-ML05B/12B/16F/17B/19C/21B; MAN 342 Type M2; Voith Turbo 3.325-340/3.325-342; Flender BA 7302 Table R1

D-A SynSure™ SAE 80W-140: Arvin Meritor O-76N; Dana SHAES 429, International TMS-6816; Mack GO-J; ZF TE-ML05B/12B/16F/19C/21B

Typical Properties

SAE Grade	SAE J-306	75W-90	80W-140	50
Viscosity				
@ 100° C,cSt	ASTM D445	15.9	31.2	17.5
@ 40° C,cSt	ASTM D445	120	310	132
Viscosity Index	ASTM D2270	140	139	146
Pour Point, °C (°F)	ASTM D97	-45 (-48)	-36 (-33)	-45 (-43)
Flash Point, °C (°F)	ASTM D92	204 (400)	210 (412)	221 (432)
Specific Gravity @ 60°F	ASTM D1298	0.859	0.870	0.860
Copper Corrosion	ASTM D130	1a pass	1a pass	1a pass
Timken OK Load	ASTM D2509	50	85	N/A
FZG, stage, pass	ASTM D5182	12	12	10
	Drum	14422	14452	14412
	Quarter Drum	14426	14456	14416
	Pail	14428	14458	14418



To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823) or Fax orders to 765-482-3065

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