

Product Data Sheet

Gear Synth LL

Description and Applications

Saheli Gear Synth LL (Long Life) is fully synthetic supreme performance manual transmission lubricants specially developed for heavy duty transmissions used in on-road commercial vehicles, off-highway equipment and passenger cars operating in most severe conditions. These are blended from synthetic base fluids and advanced technology additive system to provide enhanced gear shiftability, extended service life and excellent protection against component wear and oil seal deterioration.

Features and Benefits

Saheli Gear Synth LL, SAE 50 is approved as Genuine Roadranger lubricant and SAE 75W80 and SAE 75W90 meet the most stringent requirements of Volvo for extended drain intervals.

- Meets the performance requirements of synchromesh transmissions which includes synchromesh compatibility, thermal stability and shift feel
- Unique additive technology provides outstanding load bearing characteristics resulting in longer gear and bearing life and hence reduced maintenance costs and enhanced equipment durability
- Effective rust and corrosion protection, especially to copper and its alloys reduces wear, extends synchronizer and bearing life and improves shifting performance
- Outstanding low temperature fluidity reduces wear at start-up and helps in smoother shifting at low ambient temperatures
- Superior frictional properties provide improved fuel economy (SAE 75W80)

Applications

- **SAE 50** is exclusively developed for Eaton Gearbox and is approved as Genuine Roadranger Lubricant in synchromesh gearboxes including those with integrated retarders
- **SAE 75W90** (for ambient temperatures even above 30°C) and **75W80** (for ambient temperatures even below -25°C) are specially developed for Volvo manufactured manual Transmissions
- Manual Transmission of Heavy Duty On-highway and Off-highway vehicles requiring such quality oils

Specifications

- **API MT-1, Eaton Transmission Div, PS-164 R7, ZF Freedomline**
- Daimler MB 235.29, Intern. Truck TMS 6816, ArvinMeritor 0-81
- Volvo Transmission Oil 97307(Volvo STD 1273,07), Mack TO A-Plus
- MAN 341 Type VR, Voith Retarder 153.00090010
- Voith Turbo, Retarder – Oil Class C

Test Parameters	Test Method	Typical Results		
		50	75W80	75W90
SAE Viscosity Grade	J2360	50	75W80	75W90
Density @ 15°C gm/cm3	ASTM D1298	0.860	0.861	0.869
Viscosity Index	ASTM D2270	146	144	146
Viscosity @ 100°C (cSt)	ASTM D 445	17.50	10.25	18.25
Pour Point °C	ASTM D 97	< -45	-55	-38
Flash Point (COC) °C	ASTM D 92	221	220	235

The information contained in this data sheet are indicative and correspond to the date of publication of this document. The above data are based on laboratory tests. It is the reader's interest to ensure whether the most recent version of the data sheet. A safety data sheet is available on request by our sales consultant. For more information, please contact the sales department.