

[WWW.UNIL.COM](http://WWW.UNIL.COM)

# MANUAL TRANSMISSION LUBRICANTS



**LIQUID TECHNOLOGY**

## MANUAL TRANSMISSION FLUIDS

All manual transmission fluids have a specific level of specifications. The levels can be divided into:

**GL-4** 'Gear Lubricants' is mostly used for transmissions

**GL-5** is mostly used for axles and differentials.

The sulphur and phosphor level is different for both. So it is advised not to mix both unless the lubricant is designed as a combined GL-4/GL-5.

**MT-1** Intended for non-synchronized manual transmissions used in buses and heavy-duty trucks. Lubricants meeting API MT-1 provide protection against the combination of thermal degradation, component wear, and oil seal deterioration which is not provided by lubricants meeting only the requirements of API GL-4 and API GL-5.

**LS** Stands for "Limited Slip". Special additives are included. Under acceleration a limited slip differential locks both drive wheels together for more traction, but unlocks the wheels while coasting or turning.

**EP** Stands for Extreme Pressure.



	75W80	80W85	80W90	75W90	85W90	75W140	85W140
<b>GL-4</b>	Gerion LE Gerion LD	Gear EP	Gear EP				Gear EP
<b>GL-5</b>	Multigear		Gear ZF		Gear ZF		Gear ZF
<b>GL-5 LS</b>			Gear LS		Gear LS		Gear LS
<b>GL-4 + GL-5</b>			Universal Gear	Gerion X-TRA Gerion Plus			
<b>GL-4 + GL-5 + MT-1</b>				Gerion Drive Gerion Drive X-TRA		Gerion Drive Gerion Drive X-TRA	
<b>GL-4 + GL-5 + MT-1 + LS</b>				Gerion LS		Gerion LS	

Product	Visc.	Specifications	Description
---------	-------	----------------	-------------



Gerion LS

75W90	API GL4/GL5-LS/MT-1 • MAN 341 Type E-3 • MAN 341 Z-2 • MAN M 342 M3 • SCANIA STO:01 • DAF • IVECO • MB-Approval 235.8 • ZF-TE-ML 02B/12B/16F/17B/19C/21B	100% synthetic EP-oils (extreme pressure), especially developed for the lubrication of axles with a limited-slip differential. This type of axle is installed on numerous sports and racing cars, as well as on sports utility and public works vehicles.
75W140	API GL4/GL5-LS/MT-1 • SAE J2360 • MAN 341 Type E-3 • MAN M 342 M3 • SCANIA STO:01 • MB 235.8 • IVECO • DAF	



Gerion Drive

75W90	API GL4/GL5/MT-1 • DAF • IVECO • MIL-L-2105D • MIL-L-2105E • MACK GO-J • MB 235.8 • MAN 341 Type Z-2 • MAN 342 M-3 • SAE J2360 • SCANIA STO:01 • Volvo 97312 • ZF-TE ML 02B/05A/07A/12L/12N/16B/16F/17B/19C/21A	100% synthetic LONG DRAIN oil, designed for gearboxes and rear axles on industrial vehicles and excavation machinery that are subject to heavy loads. It is ideal for simplifying the supply of lubricants.
75W140	API GL4/GL5/MT-1 • MIL-L-2105D • MIL-PRF-2105 E • SAE J2360 • SCANIA STO:01 • ZF-TE ML 05A/07A/12N/16F/19C/21A	



Gerion Drive X-TRA

75W90 75W140	API GL4/GL5/MT-1 • ARVIN MERITOR 0-76-N • DAF • IVECO • MACK GO-J • MAN 341 Type E-2/Z-2 • MAN M 342 M3 • MB 235.11/235.8 • MIL-PRF-2105 E • SAE J2360 • SCANIA STO:01 • ZF-TE ML 02B/05B/07A/12B/16F/17B/19C/21B	GERION Drive X-tra is a 100% synthetic oil suitable for the lubrication of mechanical gearboxes and rear axles where a performance level API GL4 or GL5 is required, with extreme pressure (EP) and anti-wear properties. Gerion Drive X-tra ensures a constant viscosity and can be used for extended drain intervals because the highquality synthetic base oils and specific additives that are used. There are two viscosities available within the Gerion Drive X-tra family: 75W90 and 75W140.
-----------------	---	--



Gerion X-TRA

75W90	API GL3/GL4/GL5/MT-1 • MIL-L-2105D • MIL-L-2105E • SAE J2360 • MB 235.8 • MAN 341 Type Z-2 • MAN M 3343 S • ZF-TE ML 02B/05A/07A/12L/12N/16F/17B/19C/21A • SCANIA STO:01 • DAF • IVECO • Eaton Europe • Volvo 97312 • MACK GO-J • Ford M2C 200-B	Synthetic oil used, for instance, for gearboxes of passenger cars using cold fluid oil (Renault, Peugeot, Citroën).
-------	--	---

Product	Visc.	Specifications / Official approvals	Description
---------	-------	--	-------------



Gerion Plus

75W90  
API GL4/GL5 • MAN 342 M-1 • MB 235.0 • MIL-PRF-2105 D • VOITH • VOLVO 97310/97316 • ZF-TE ML 07A/16B/16C/16D/17B/19B/21A

Gerion Plus 75W90 is made for all mechanical gearboxes requiring an extreme pressure API GL4 or GL5 level.

GERION Plus 75W90 can be used in industrial vehicle bridges, as well as mechanical gearboxes when a simplification of lubricant supply and fuel-savings are desired. Typically used in 5 gear gearboxes of FORD, NISSAN, PORSCHE, TOYOTA, VAG, VOLVO, PSA, RENAULT,...



Universal Gear

80W90  
API GL4/GL5 • DAF • MAN 342 M-1 • MB 235.0 • MIL-L-2105D • RENAULT • VOITH 3.325-339 • VOLVO 97310/97316 • ZF-TE-ML 05A/07A • ZF-TE ML 16B • ZF-TE-ML16C/16D/17B/19B/21A

This oil fulfils both the API GL4 and GL5 standards. It is ideal for rationalizing the supply of different lubricants.



Gear LS

80W90  
85W90  
85W140  
API GL5-LS • Ford M2C 118A/118B • KOMATSU KES07861 • MAN 342 M-1 • MB 235.0 • MIL-L-2105D • MIL-PRF-2105 E • RENAULT • SAE J2360 • VOITH 3.325-339 • VOLVO 97310/97316 • ZF-TE-ML 05C • ZF-TE ML • 07A/16B/16C/16D/17B/19B/21A

Extreme pressure (EP) oils that have been developed especially for the lubrication of axles with a limited-slip differential. This type of axle is installed on numerous sports and racing cars, as well as on sports utility and public works vehicles.



Gear ZF

80W90  
85W90  
85W140  
API GL5 • MB 235.0 • DAF • KOMATSU KES07861 • MAN 342 M-1 • MIL-L-2105D • RENAULT • VOITH 3.325-339 • VOLVO 97310/97316 • ZF-TE-ML 01/05A/07A/16B/16C/16D/17B/19B/21A

For geared transmissions subject to heavy loads, such as gearboxes and hypoid rear axles of industrial vehicles, earthmoving machines, agricultural machines and those machines where the manufacturer recommends API GL5.

Product	Visc.	Specifications / Official approvals	Description
---------	-------	--	-------------



Multigear

75W80  
API GL5 • DAF • MAN 342 M-1 • MB 235.0 • MIL-L-2105D • RENAULT • VOITH 3.325-339 • VOLVO 97310/97316 • ZF-TE-ML 05A/07A/16B/16C/16D/17B/19B/21A

Synthetic oil used, for instance, for gearboxes of passenger cars using cold fluid oil (Renault, Peugeot, Citroën).



Gerion LD

75W80  
API GL4 • DAF • Eaton Extended Drain (300,000 km) • IVECO • MAN 341 Type E-3/Z-3/Z-4 • RENAULT (in accordance with RENAULT NTECHN. B0032/2 ANNEX 3) • Volvo 97305/97307 • ZF-TE ML 01L • ZF-TE-ML 02L • ZF-TE ML 16K

GERION LD 75W80 has been designed to lubricate all manual gearboxes demanding an Extreme-Pressure level of performance API GL4 and an SAE Grade of 75W80, particularly for gearboxes demanding homologation ZF-TE-ML 02 L (extended oil change interval of approximately 300.000 km) and gearbox types like ZF 9S-109, ZF 9S-1310, ...



Gear EP

80W85  
80W90  
85W140  
API GL4 • MB 235.1 • MAN 341 Type E-1/Z-2 • ZF-TE-ML 2B/16A/17A/19A • ZF-TE ML 19C

For gearboxes of passenger cars, freight lorries, agricultural machines, earthmoving machines and forklift trucks, where API GL4 standard oil is required. It is also suitable for medium-load rear axles and reverse clutches, if they fulfil the 'extreme pressure' requirement of the manufacturer.



Gerion LE

75W80  
API GL4 • ZF-TE-ML 02 • MAN 341 Type E-3/Z-3 • DAF • IVECO • RENAULT • Volvo 97305/97307

For gearboxes of passenger cars, freight lorries, agricultural machines, earth-moving machines and forklift trucks, where API GL4 standard oil is required. It is also suitable for medium-load rear axles and reverse clutches, if they fulfil the 'extreme pressure' requirement of the manufacturer.



***LIQUID TECHNOLOGY***

Bergensesteenweg 713 | BE-1600 Sint-Pieters-Leeuw  
Tel. +32 (0)2 365 02 00 | [www.unil.com](http://www.unil.com) | [@UnilLubricants](https://www.instagram.com/UnilLubricants)