

LubriTec

Synthetic Lubricant Cross Reference Chart Series



Synthetic API GL-4/GL-5 Gear Oils

	Family Name	SAE 75W-90	SAE 75W-90, 80W-140	Remarks
Add Oil (Malaysia)	Synclear	75W-90		
Allegheny Petroleum	Altra Syntec GT-7	75W-90	75W-140	
Allied Oil & Supply	Allied Mag Synthetic EP	75W-90	75W-140	
Amalie	Synthetic Gear Lubricant	75W-90		
Amalie Petroquimica (Spain)	Gear Lube EP Synt	75W-90		
American Synthol	Amerilube SGL	75W-90	80W-140	
American Agip	Rotra LSX	75W-90		
	Syn-Gear EP4	75W-90		
	Syn-Gear EP5/6		80W-140	
AMSOIL	----	AGR, TGR MTG	AGO (85W-140), TGO (75W-140) API GL-4	
Amtecol	Dura Life Synthetic Gear Oil	75W-90		
Anderol	850-	75W-90	75W-140	
Benz Oil	Syn-Tech	75W-90	80W-140	
Black Bear	SYN-EP Gear Lubricant	75W-90	80W-140	
BG Products	Ultra-Guard	75W-90		PAO
BP	Energear SHX-A	75W-90	80W-140	
Cam2	Synthetic Gear Lubricant	75W-90	80W-140	
Case IH	Gear Lube SSL	75W-90		
Castrol	Syn-Gear	75W-90	80W-140	
Caterpillar	FDAO Syn		80W-140	
Cenex/Farmland	Maxtron GL	75W-90	80W-140	
Central Petroleum	Cen-Pe-Co Synthetic G.L.	75W-90		
Cepsa (Spain)	Transmission EP FE LD	75W-90		
Champion	HTS Gear Lube	75W-90	80W-140	
Chemtool	Dyno-Tech HD	75W-90	80W-140	
Chevron	Tegra Synthetic Gear Lubricant	75W-90	80W-140	PAO
	RPM Synthetic Gear Lubricant	75W-90		PAO
Citgo	Synthetic Gear Lubricant	75W-90	80W-140	
	Mystik Synguard SX-7000	75W-90	80W-140	

	Family Name	SAE 75W-90	SAE 75W-90, 80W-140	Remarks
Cognis	Emgard	2984, 2988, 2899?, 4209	2831	
Conoco	Emgard Syn. Axle Lubricant	75W-90		
	Syncon HP Synthetic Gear Oil	75W-90	80W-140	
	76 Triton Synlube LDO*	75W-90	80W-140	
Cyclon (Greece)	Gear Synthetic	75W-90		
D-A	Syn-Sure Syn. Lube & Syn-Sure 2	75W-90	80W-140	
David Weber	Gibraltar Syn-Gear EP	75W-90	80W-140	
Eaton	Roadranger EP	75W-90	80W-140	
Exxon	SGO (Synthetic Automotive Gear Oil)	75W-90	80W-140	PAO
Ford	Motorcraft Synthetic Rear Axle Lubr.	75W-90		
	Motorcraft Fuel Efficient HP Syn. Axle	75W-90		
Fuchs (Germany)	Titan Cytrac SL	75W-90		
	Titan Cytrac HSY	75W-90		
	Titan Speed SL	75W-90		
	Titan Gear HLS 7590	75W-90		
	Titan Gear Syn 75140		75W-140	
General Motors	Synthetic Axle Lubr. 12345841			
Great Wall Sinopec China)	Great Wall Syn Heavy Duty Gear Lubr.	75W-90	75W-140	
Gulf Oil	Syngear	75W-90	80W-140	PAO
Gulf Oil Ltd	Syngear	75W-90		PAO
	Universal Syngear	75W-90		
Hicks Oil	Venom Synthetic GL-5		75W-140	
Idemitsu Kosan (Japan)	Synthetic High Performance Gear Oil	75W-90	75W-140	
Igol (France)	Synthe gear	75W-90		
Industrial Oils Unlimited	Hi-Tek Synthetic	75W-90	80W-140	
Intercontinental	Golden Spectro Full Synthetic Differential	75W-90	75W-140	
Irving Oil	Syn HDH	75W-90	80W-140	
JAX	Syngear GL	75W-90	80W-140	PAO
Kendall	Elite Synthetic Gear Lubricant	75W-90	80W-140	
	Super Three Star Synthetic Gear Lubricant	75W-90	80W-140	
	SHP Synthetic Gear Lubricant	75W-90		
Kost USA	KOSTGard Syngear	75W-90	80W-140	
Kuwait Petroleum	Q8 T65	75W-90		
Liqua-Tek	H-D Plus Syn-Gard	75W-90	80W-140	PAO
Lubemaster	Lubemaster Synthetic EP	75W-90	80W-140	(Div. Certified Labs)
LubLine	Synthetic High Performance Gear Oil	75W-90		
Lubricants USA	Fina SynPro Synthetic Gear Oil	75W-90	80W-140	PAO
Lubricating Specialties	SynGear	75W-90	75W-140	
	SynGear Limited Slip	75W-90		
Lubrication Engineers	9921 & 9922 Synolec	75W-90 (9921)	80W-140 (9922)	
Lucas	Synthetic Gear Oil	75W-90		
Mack	Bulldog Synthetic Gear Lubr.	75W-90	80W-140	
Marathon	Heavy Duty Synthetic Gear Lubr.	75W-90	80W-140	

	Family Name	SAE 75W-90	SAE 75W-90, 80W-140	Remarks
McCullister	United Syn Gear	75W-90	80W-140	
	Archer Synthetic	75W-90	80W-140	
Meguin (Germany)	Megol Getriebeoel Truck-Synth	75W-90		PAO
Metatron (Mexico)	Metatron 691		75W-140	PAO
	Metatron 740		80W-140	Eaton & Meritor discontinued
Mobil	Mobilube SHC	75W-90	80W-140	
	Mobil 1 Synthetic Gear Lube	75W-90	80W-140	
	Mobil 1 Synthetic Gear Lube LS		75W-140	
	Delvac Synthetic Gear Lube	75W-90	80W-140	
Motul	Hypo Synt	75W-90		
Morris (UK)	Lodexol FS	75W-90		
Navistar/International	Fleetrite Synthetic Gear Oil	75W-90	80W-140	
NEO Synthetic	NEO Synthetic Gear Lube	75W-90 RHD	80W-140	
New Holland – Ambra	Hypoide SSL Gear Lube	75W-90		
Northland	Synergy Syn. Gear Lube EP	75W-90		
Oberon (Singapore)	F808 Synthetic Gear Lube	75W-90	75W-140	75W-250
	F806	75W-90	80W	API GL-4
Orlen (Poland)	HIPOL Synthetic GL-5		75W-140	
PACCAR	Kenworth Synthetic	75W-90	80W-140	
Pennzoil	Synthetic SAE 75W-90 GL-4	75W-90		API GL-4
	Synthetic SAE 75W-90 GL-5	75W-90		API GL-5, formerly GearPlus Super
	GearPlus Super EW	75W-90	80W-140	
	Long-Life EW	75W-90	80W-140	
Petro-Canada	Syngear E	75W-90	80W-140	
	Traxon E Synthetic	75W-90	80W-140	
Petronomics	-----	51061	51063	
Phillips	Philguard Synthetic Gear Oil	75W-90	80W-140	
	76 Triton Synlube LDO*	75W-90	80W-140	
Pinnacle	Synthetic Gear Lubricant	75W-90		
Pitt-Penn	Syntec GT-7	75W-90	80W-140	
Primrose	745 & 746 Syn-O-Gen Synthetic EP	75W-90 (745)	80W-140 (746)	
Quaker State	Full Synthetic Gear Oil	75W-90		
Red Line	Synthetic GL-5 Gear Oil	75W-90	80W-140	
	MTL			API GL-4
Royal Manufacturing	Monarch Syngear Plus	75W-90	80W-140	
Royal Purple	Max Gear	75W-90	75W-140	
Schaeffer	740, 741 Synthetic Lube EP	75W-90	80W-140	
	214S		75W-140	PAO, plus moly
Shell	Spirax S	75W-90	80W-140	
Shell Canada	Spirax ASX	75W-90		high performance
	Spirax S	75W-90		
Silogram	Syn Gear EP	75W-90	80W-140	
Sinclair	Dyno-Tech HD	75W-90	85W-140	
SLFi	SL-	75W-90	80W-140	
Southern FS	FS GL-5 Synthetic Gear Oil	75W-90		

	Family Name	SAE 75W-90	SAE 75W-90, 80W-140	Remarks
Spectro	Golden Spectro Full Syn. Differential	75W-90	75W-140	
Sunoco (UK) & (Belgium)	GL-5 Synthetic Superflo	75W-90	75W-140	
Sun Japan	Racing Gear	75W-90	75W-120	80W-140
Summit	Syngear	75W-90	80W-140	
Taylor Petroleum	Emgard EP Gear Lubricant	75W-90		
Texaco	Syn-Star GL	75W-90	80W-140	
TRC	Syntex 2700	75W-90	80W-140	
Unil Opal (France)	Gerion Drive	75W-90	75W-140	
Universal Lubricants	Dyna-Plex 21C Synzol	75W-90	80W-140	
Valvoline	SynPower Gear Oil	75W-90		
	High Perf. HD Synthetic Gear EP	75W-90	80W-140	
Verkol (Spain)	Verkol ZF-7	75W-80		GL-4
	Verkol GT-8	75W-90		
Warren Distribution	MAG 1		75W-140	
Wladoil (Italy)	Gear Oil Special EP		80W-140	
	Gear Synthetic Oil	75W-90		
Whitmore	Decathalon HD	75W-90	80W-140	
Yacco (France)	BVX 1000	75W-90		
Zeller+Gmelin (Germany)	DIVINOL Synthogear SL	75W-90		
	DIVINOL Synthogear Extra LS	75W-90		Limited Slip
76 Lubricants	76 Triton Syn Lube EP	75W-90	80W-140	
	76 Triton Synlube LDO*	75W-90	80W-140	

* Conoco/Phillips/76Lubricants family

Notes, disclaimer, and copyright:

1. The intention of this study was to list only finished synthetic lubricants made from Group IV or Group V base oils; a few of the above, unknown to our knowledge, may possibly be made from Group III base oils. The vast majority of the above are PAO based.
2. All the above lubricants are full synthetics; none are semi-synthetic or para-synthetic.
3. All above oils (except for a few lesser known suppliers where data is not provided) are typically API GL-5, minimum API GL-4, except where noted.
4. The vast majority of the above gear lubricants meet/exceed the Extended Warranty requirements for Eaton Roadranger and Meritor (Rockwell) extended drain.
5. A few of the above listed lubricants may no longer be marketed, but were intentionally listed so that the user of these charts could determine a suitable replacement for an obsolete lubricant.
6. Disclaimer: every effort was taken to ensure that these charts are as accurate as possible; however, we are not liable for any errors or inaccuracies. LubriTec will not be responsible for any decisions made as a result of the information provided above.
7. LubriTec is the owner of copyright, database rights and all intellectual property rights of these charts; they shall not be copied (except for one personal use), modified, distributed, re-transmitted in total or any part thereof, without the prior written consent of LubriTec.

Additions and modifications are requested from the technical staff of the above listed lubricant marketers. These modifications will then be incorporated into updated charts and presented in another series after this series is complete.

Source: LubriTec Research

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Synthetic Base Stock Specifications (for base stocks used in these synthetic lubricants)
 (these will also appear in Section 19 of our Inaugural Annual Synthetic Lubricant Cross Reference Chart Book)



Base Stock						Viscosity at 100C, cSt							
	2	4	6	8	10	12	14	28	40	100	150	300	1,000
PAO													
SpectraSyn	2, 2B	4, 5	6, 6LN	8	10				40	100			
SpectraSyn Ultra											150	300	1000
SpectraSyn Plus		3.6, 4	6										
Ester													
Esterex	A32,A34	A41	A51			TM101	TM111	TM141					
		P35	P61	P81				DB121					
		NP343	NP451	NP372	NP396								
		NP451	NP471				NP4101		C4261	C4461			
Alkylated Naphthalenes													
Synestic		5					12						

Note: The primary difference between SpectraSyn and SpectraSyn Plus is the unique combination of low volatility and low-temperature fluidity of the SpectraSyn Plus, which can be valuable to a formulator working to develop a new step-out lubricant or to gain base oil blending flexibility to improve current formulations.

Afton Chemical

Base Stock						Viscosity at 100C, cSt							
	2	4	6	8	10	12	14	28	40	100	150	300	1,000
Alkylbenzene													
HiTEC 6949		(5.1 cSt at 100C)											

Are your synthetic base stocks used for blending these oils not shown here? If not, and you wish them to be, please send us the name/number designation, type of synthetic base stock, primary application(s) and ISO Viscosity Grade of each.