

LUBRICATION GUIDE

Information provided by Amanda Pelliccione, research director, CFE Media

		Lubriplate Lubricants Newark, N.J. www.lubriplate.com	A&S International Theale, United Kingdom www.aands.international	Acemire Tláhuac, Mexico City www.acemire.mx	Allegheny Petroleum Wilmerding, PA www.oils.com	American Refining Group Bradford, PA www.amref.com	BioTech-Lube Pointe-Claire, QC www.biotech-lube.com
General Purpose Lubricant							
ISO Viscosity Grade	Viscosity, SUS at 100 F						
32	135-165	H0-0	-	-	-	ARGuard Premium R&O Turbine Oil ISO 32	-
46	194-236	H0-1	-	-	-	ARGuard Premium R&O Turbine Oil ISO 46	-
68	284-346	H0-2	-	-	-	ARGuard Premium R&O Turbine Oil ISO 68	-
150	630-770	H0-3	-	-	-	ARGuard R&O Oil ISO 150	-
220	900-1100	H0-4	-	-	-	ARGuard R&O Oil ISO 220	-
460	1935-2365	H0-6	-	-	-	-	-
Antiwear Hydraulic Oil							
32	135-165	H0-0	-	-	Altra AW 32	ARGuard Premium AW Hydraulic Fluid ISO 32	BioSYN HES 32
46	194-236	H0-1	-	-	Altra AW 46	ARGuard Premium AW Hydraulic Fluid ISO 46	BioSYN HES 46
68	284-346	H0-2	-	-	Altra AW 68	ARGuard Premium AW Hydraulic Fluid ISO 68	BioSYN HES 68
Spindle Oil							
2	29-35	GG Oil	-	-	Altra Spindle Oil 2	-	-
10	54-66	No. 0	-	-	Altra Spindle Oil 10	ARGuard R&O Oil ISO 10 (Spin 10)	-
22	95-115	No. 1	-	-	Altra Spindle Oil 22	-	-
Way Oil							
32	135-165	10R	-	-	Altra Waylube 32	-	BioWAY HES 32
68	284-346	Way Lube 68	-	-	Altra Waylube 68	ARGuard Waylube ISO 68	BioWAY HES 46
220	900-1100	SPO-255	-	-	Altra Waylube 220	ARGuard Waylube ISO 220	BioWAY HES 68
Extreme Pressure Gear Oil							
68	284-346	APG-80	-	-	Altra Gear Oil EP 68	ARGuard EP Gear Oil ISO 68	BioSYN GEAR 68
150	630-770	Kline Gear 80W-90	ML615 Synthetic Gear Oil	-	Altra Gear Oil EP 150	ARGuard EP Gear Oil ISO 150	BioSYN GEAR 150
320	135-1650	APG 80W-140	ML632 Synthetic Gear Oil	-	Altra Gear Oil EP 320	ARGuard EP Gear Oil ISO 320	BioSYN GEAR 320
Worm Gear Oil							
460	1935-2365	SPO-277	-	-	-	-	-
Cling Type Gear Shield	-	Gear Shield Extra Heavy	-	-	-	-	-
General Purpose Extreme Pressure Lithium Base Grease	NLGI 2	No. 1242	-	-	-	-	-
Molybdenum Disulfide Extreme Pressure Grease	NLGI 2	No. 3000	-	-	-	-	-
H1 Grease	-	FGL-2	-	-	-	-	-
H1 Fluid	-	FMO-350AW	-	-	-	-	-
General Purpose Synthetic Fluid	-	SynLube 68	-	-	-	-	-

		Chevron Lubricants San Ramon, CA www.chevronlubricants.com	CITGO Petroleum Corp. Houston, TX www.citgo.com	FRAGOL AG Mülheim, Germany www.fragol.de	G&G Oil Co. Muncie, IN www.ggoil.com	G-C Lubricants San Carlos, CA https://gclube.com	Gulf Oil Lubricants India Maharashtra, India www.gulfoilltd.com		HILL Corporation Almaty, Kazakhstan www.hillcorp.kz	Hollyfrontier Richmond hill, ON www.hollyfrontier.com	HUSKEY Specialty Lubricants Norco, CA www.huskey.com	International Chemical Company & Zurnoil Philadelphia, PA www.e-icc.com	ITW ROCOL Leeds, United Kingdom www.rocol.com	New Age Chemical Delafield, WI www.newagechemical.com	
General Purpose Lubricant															
ISO Viscosity Grade	Viscosity, SUS at 100 F														
32	135-165	ISOCLEAN Certified Lubricants - Regal R&O, Cetus HiPerSYN	CITGO Pacemaker 32	FRAGOL HYDRAULIC W 32 FG	G&G Royal R&O 32	Elapa Oil R+O 32	Gulf Security		-	-	HLO Oil, ISO 32	Zurnpreem 15A	-	PB Hydraulic 32 RO	
46	194-236		CITGO Pacemaker 46	FRAGOL HYDRAULIC W 46 FG	G&G Royal R&O 46	Elapa Oil R+O 46			-	-	HLO Oil, ISO 46	Zurnpreem 21A	-	PB Hydraulic 46 RO	
68	284-346		CITGO Pacemaker 68	FRAGOL HYDRAULIC W 68 FG	G&G Royal R&O 68	Elapa Oil R+O 68			-	-	HLO Oil, ISO 68	Zurnpreem 30A	-	PB Hydraulic 68 RO	
150	630-770		CITGO Pacemaker 150	FRAGOL GEAR W 150 FG	G&G Royal R&O 150	Elapa Oil R+O 150			-	-	HLO Oil, ISO 150	Zurnpreem 70A	-	PB Hydraulic 150 RO	
220	900-1100		CITGO Pacemaker 220	FRAGOL GEAR W 220 FG	G&G Royal R&O 220	Elapa Oil R+O 220			-	-	HLO Oil, ISO 220	Zurnpreem 95A	-	PB Hydraulic 220 RO	
460	1935-2365		CITGO Pacemaker 460	FRAGOL GEAR W 460 FG	G&G Royal R&O 460	Elapa Oil R+O 460			-	-	-	-	-	-	PB Hydraulic 460 RO
Antiwear Hydraulic Oil															
32	135-165	ISOCLEAN Certified Lubricants - Rando HDZ, Rando HD, Hydraulic AW	CITGO HyDurance AW 32	-	G&G Royal Hydraulic 32	Light AW 32	Gulf Harmony AW		-	Hydrex AW, MV, Environ AW, MV	HLO Oil, ISO 32	Zurnpreem 15A	SAPPHIRE Hi-Power 32	PB Hydraulic 32	
46	194-236		CITGO HyDurance AW 46	-	G&G Royal Hydraulic 46	Medium AW 46			-		HLO Oil, ISO 46	Zurnpreem 21A	SAPPHIRE Hi-Power 46	PB Hydraulic 46	
68	284-346		CITGO HyDurance AW 68	-	G&G Royal Hydraulic 68	Heavy Medium AW 68			-		HLO Oil, ISO 68	Zurnpreem 30A	SAPPHIRE Hi-Power 68	PB Hydraulic 68	
Spindle Oil															
2	29-35	-	Mystik Twin Disc Fluid	-	G&G Royal Spindle 2	Spindle Oil 000	-		-	Metworx Spindle Oil 2	-	Zurnpreem 3A	-	PB Spin 2	
10	54-66	ISOCLEAN Certified Lubricants - Ran	-	-	G&G Royal Spindle 10	Spindle Oil 00	-		-	-	-	Zurnpreem 6A	-	PB Spin 10	
22	95-115	ISOCLEAN Certified Lubricants - Rando HD	CITGO Diamond Oil 20	-	G&G Royal Spindle 22	Spindle Oil 0	Gulf Harmony AW		-	-	-	Zurnpreem 10A	-	PB Spin 22	
Way Oil															
32	135-165	ISOCLEAN Certified Lubricants - CHEVRON WAY, WAY OIL VISTAC	CITGO SlideRite 32	-	G&G Waylube 32	Way Lube 1405	Gulf Way		-	-	-	Zurn Waylube 1	-	Riteway 32	
68	284-346		CITGO SlideRite 68	-	G&G Waylube 68	Way Lube 80			-	Waylube 68	-	Zurn Waylube 80-NE	Ultraglide X5	-	Riteway 68
220	900-1100		CITGO SlideRite 220	-	G&G Waylube 220	Way Lube 90			-	accuflo tk	-	Zurn Waylube 90	-	-	Riteway 220
Extreme Pressure Gear Oil															
68	284-346	ISOCLEAN Certified Lubricants - Meropa EliteSyn XM, MEROPA XL, MEROPA	CITGO EP Compound 68	-	G&G Industrial Gear Oil 68	Multi Purpose EP 68	Gulf EP Lubricant HD		-	Enduratex EP, Synduro SHB	Enclosed Gear Oil, ISO 68	Zurn EP 35	-	PB EP Gear 68	
150	630-770		CITGO EP Compound 150	-	G&G Industrial Gear Oil 150	Multi Purpose EP 150			-		Enclosed Gear Oil, ISO 150	Zurn EP 70	SAPPHIRE Hi-Torque 150	-	PB EP Gear 150
320	135-1650		CITGO EP Compound 320	-	G&G Industrial Gear Oil 320	Multi Purpose EP 320			-		Enclosed Gear Oil, ISO 320	Zurn EP 120	SAPPHIRE Hi-Torque 320	-	PB EP Gear 320
Worm Gear Oil															
460	1935-2365	Cylinder Oil W	CITGO Cylinder Oil 400-5	FRAGOL GEAR PGN 460 FG	G&G Steam Cylinder 460	Steam Cylinder Oil 460 AD	Gulf Senate		-	Enduratex Mild WG	Enclosed Gear Oil, ISO 460	-	SAPPHIRE Hi-Torque 460	PB Worm GO 460	
Cling Type Gear Shield	-	-	CITGO CITGEAR MGW-OGL	-	G&G Gear Tac 90	-	-		-	-	Open Gear Grease	-	Tuflube Allweather	CS000 220	
General Purpose Extreme Pressure Lithium Base Grease	NLGI 2	-	CITGO Premium Lithium EP 2	-	G&G LC EP 2	Lith EP #2	Gulf Crown		-	Precision XI EP 2	Coolplex Grease	Zurn Ultraplex #2 EP	SAPPHIRE 2	New Age Lith #2	
Molybdenum Disulfide Extreme Pressure Grease	NLGI 2	-	CITGO Lithoplex CM 2	-	G&G Moly EP 2	Moly Lith EP #2	Gulf Gultex		-	Precision XI 5 moly EP	Molyplex Grease	-	SAPPHIRE Hi Load 2	New Age Molyliith #2	
HI Grease	-	-	Clarion Food Machinery HT EP 2	-	-	Alumplex FM # 2	-		-	Purity FG	775 FMG Grease	-	FOODLUBE Premier 1	-	
H1 Fluid	-	-	Clarion Food Machinery AW 32	FRAGOL GEAR PGN 460 FG	-	FM oil 32-460	-		-		HI-LO Series Oils	-	-	FOODLUBE Hi Power / Hi Torque	-
General Purpose Synthetic Fluid	-	Clarity Synthetic Machine Oil - ISOCLEAN Certified Lubricants	CITGO Pacemaker ST-32	FRAGOL GEAR PGS 460 FG	-	Primus Lube 4	Gulf Crown Synth LC		-	Synduro SHB	HLO Series Oils	-	-	-	

		OELCHECK Brannenburg, Germany www.oelcheck.de	Petro-Canada Lubricants Mississauga, ON lubricants.petro-canada.com	Quaker Houghton Conshohocken, PA quakerhoughton.com	Schaeffer Manufacturing Co. St. Louis, MO www.schaefferoil.com	TOTAL Specialties Linden, NJ www.totalspecialties.com
General Purpose Lubricant						
ISO Viscosity Grade	Viscosity, SUS at 100 F					
32	135-165	Analysis Kit 1	TURBOFLO XL 32	WOCO TURBINE & HYDRAULIC 32	112 HTC Oil ISO ISO 32, 254 HTC Supreme ISO 32	Cirkan RO 32
46	194-236		TURBOFLO XL 46	WOCO TURBINE & HYDRAULIC 46	112 HTC Oil ISO ISO 46, 254 HTC Supreme ISO 46	Cirkan RO 46
68	284-346		TURBOFLO XL 68	WOCO TURBINE & HYDRAULIC 68	112 HTC Oil ISO ISO 68, 254 HTC Supreme ISO 68	Cirkan RO 68
150	630-770		-	WOCO TURBINE & HYDRAULIC 150	112 HTC Oil ISO ISO 150, 254 HTC Supreme ISO 150	Cortis MS 150
220	900-1100		-	WOCO TURBINE & HYDRAULIC 220	112 HTC Oil ISO ISO 220, 254 HTC Supreme ISO 220	Cortis MS 220
460	1935-2365		-	WOCO TURBINE & HYDRAULIC 460	264 Pure Synthetic Hydraulic Oil ISO 460	Cortis MS 460
Antiwear Hydraulic Oil						
32	135-165	Analysis Kit 3	HYDREX AW 32	WOCO AW 32	112 HTC Oil ISO ISO 32, 254 HTC Supreme ISO 32	Azolla ZS 32
46	194-236		HYDREX AW 46	WOCO AW 46	112 HTC Oil ISO ISO 46, 254 HTC Supreme ISO 46	Azolla ZS 46
68	284-346		HYDREX AW 68	WOCO AW 68	112 HTC Oil ISO ISO 68, 254 HTC Supreme ISO 68	Azolla ZS 68
Spindle Oil						
2	29-35	Analysis Kit 2	-	WOCOSPIN 3	-	Drosera MS 2
10	54-66		-	WOCOSPIN 10	324 Spindle Oil ISO 10	Drosera MS 10
22	95-115		-	WOCOSPIN 22	324 Spindle Oil ISO 22	Drosera MS 22
Way Oil						
32	135-165	-	-	PROWAY 1	160 Moly Slide & Way Lube ISO 32	Drosera MS 32
68	284-346	-	ACCUFLO TK 68	PROWAY 2	160 Moly Slide & Way Lube ISO 68	Drosera MS 68
220	900-1100	-	ACCUFLO TK 220	PROWAY 4	160 Moly Slide & Way Lube ISO 220	Drosera MS 220
Extreme Pressure Gear Oil						
68	284-346	Analysis Kit 4	ENDURATEX EP 68	WOCO HEP GEAR OIL 68	203B EP Industrial Machine Lube ISO 68, 203C EP Industrial Machine Lube No Tack ISO 68	Carter EP 68
150	630-770		ENDURATEX EP 150	WOCO HEP GEAR OIL 150	293203B EP Industrial Machine Lube ISO 150, 203C EP Industrial Machine Lube No Tack ISO 150, 293 Supreme Gear Lube ISO 150, 293A Supreme Gear Lube No Tack ISO 150	Carter EP 150
320	135-1650		ENDURATEX EP 320	WOCO HEP GEAR OIL 320	294 Supreme Gear Lube ISO 320, 294A Supreme Gear Lube No Tack ISO 320	Carter EP 330
Worm Gear Oil						
460	1935-2365	Analysis Kit 4	ENDURATEX WG 460	-	147 Steam Cylinder Oil	Carter PG 460
Cling Type Gear Shield	-	-	-	-	200S Silver Streak Multilube	Lubrilog
General Purpose Extreme Pressure Lithium Base Grease	NLGI 2	Analysis Kit 3	PRECISION XL EP2	-	221 Moly Ultra #2, 274 Moly EP Synthetic Plus #2, 219 Syn Force Green	Multics Complex EP
Molybdenum Disulfide Extreme Pressure Grease	NLGI 2	Analysis Kit 5	PRECISION XL 3 Moly EP2	-	221 Moly Ultra #2, 238 Ultra Supreme #2, 274 Moly EP Synthetic Plus #2, 274M EP Synthetic Plus Grease Extra Moly #2, 229 Ultra Red Supreme #2	Multics Complex MS
HI Grease	-	Analysis Kit 3	PURITY FG2	-	195 Supertac Food Grade Grease, 271 Synthetic Food Grade Grease	CERAN XM
H1 Fluid	-	Analysis Kit 2	PURITY FG AW 32	-	280 Food Grade HTC, 276 Synthetic Food Grade Gear Lube, 269 Hydraulic Oil H-1	NEVASTANE SH
General Purpose Synthetic Fluid	-	Analysis Kit 3	SYNDURO SHB	-	264 Pure Synthetic Hydraulic Oil	SYNOLAN 1000

		Lubriplate Lubricants Newark, N.J. www.lubriplate.com	A&S International Theale, United Kingdom www.aands.international	Acemire Tláhuac, Mexico City www.acemire.mx	Allegheny Petroleum Wilmerding, PA www.oils.com	American Refining Group Bradford, PA www.amref.com	BioTech-Lube Pointe-Claire, QC www.biotech-lube.com
Polyalphaolefin (PAO) Compressor Oil							
32	140	Syn Lube 32	-	-	Altra PAO Compressor 32	-	-
46	134	Syn Lube 46	-	-	Altra PAO Compressor 46	-	-
68	139	Syn Lube 68	ML303 Synthetic Refrigeration Compressor Oil	ACEMIRE TULCO RF-68	Altra PAO Compressor 68	-	-
100	150	Syn Lube 100	-	-	Altra PAO Compressor 100	-	-
150	131	Syn Lube 150	-	-	Altra PAO Compressor 150	-	-
Partial Synthetic Compressor Oil							
32	146	-	-	ACEMIRE FRIO 150	Altra HC Compressor Oil 32	-	-
46	145	-	-	-	Altra HC Compressor Oil 46	-	-
68	87	-	ML333 Refrigeration Compressor Oil	ACEMIRE FRIO 300	Altra HC Compressor Oil 68	-	-
100	99	-	-	-	Altra HC Compressor Oil 100	-	-
150	105	-	-	-	Altra HC Compressor Oil 150	-	-
220	105	-	-	-	Altra HC Compressor Oil 220	-	-
Centrifugal Compressor Oil							
32	127	-	-	-	-	-	-
46	136	-	-	-	-	-	-
15	120	-	-	-	-	-	-
32	160	-	-	-	-	-	-

		Chevron Lubricants San Ramon, CA chevronlubricants.com	CITGO Petroleum Corp. Houston, TX www.citgo.com	FRAGOL AG Mülheim, Germany www.fragol.de	G&G Oil Co. Muncie, IN www.ggoil.com	G-C Lubricants San Carlos, CA https://gclube.com	Gulf Oil Lubricants India Maharashtra, India www.gulfoilttd.com	
Polyalphaolefin (PAO) Compressor Oil								
32	140	ISOCLEAN Certified Lubricants - Cetus PAO	CITGO CompressorGard PAO 32	FRAGOL COMP P 32 FG	-	Primus UCBO Compressor Oil 32	Gulf Fidelity PA	
46	134		CITGO CompressorGard PAO 46	FRAGOL COMP P 46 FG	G&G Royal PAO GBC 46	Primus UCBO Compressor Oil 46		
68	139		CITGO CompressorGard PAO 68	FRAGOL COMP P 68 FG	-	Primus UCBO Compressor Oil 68		
100	150		CITGO CompressorGard PAO 100	FRAGOL COMP P 100 FG	-	Primus UCBO Compressor Oil 100		
150	131		CITGO CompressorGard PAO 150	FRAGOL COMP P 150 FG	-	Primus UCBO Compressor Oil 150		
Partial Synthetic Compressor Oil								
32	146	-	-	FRAGOL COMP W 32 FG	-	Compressor Oil 32	Gulf Fidelity LL	
46	145	-	-	FRAGOL COMP W 46 FG	-	Compressor Oil 46		
68	87	-	CompressorGard PS 68	FRAGOL COMP W 68 FG	-	Compressor Oil 68		
100	99	-	CompressorGard SS 100	FRAGOL COMP W 100 FG	-	Compressor Oil 100		
150	105	-	CompressorGard SS 150	-	-	Compressor Oil 150		
220	105	-	-	-	-	Compressor Oil 220		
Centrifugal Compressor Oil								
32	127	ISOCLEAN Certified Lubricants - CETUS HIPERSYN, GST, Regal R&O	CITGO CompressorGard PAO 32	FRAGOL COMP E 32	-	Compressor Oil 32	Gulf Fidelity	
46	136		CITGO CompressorGard PAO 46	FRAGOL COMP E 46	-	Compressor Oil 46		
15	120		-	CITGO CompressorGard PAO 150	-	-		-
32	160		-	-	FRAGOL COMP E 32	-		Compressor Oil 100

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COMPRESSOR LUBRICANTS

		HILL Corporation Almaty, Kazakhstan www.hillcorp.kz	Hollyfrontier Richmond hill, ON www.hollyfrontier.com	HUSKEY Specialty Lubricants Norco, CA www.huskey.com	International Chemical Company & Zurnoil Philadelphia, PA www.e-icc.com	ITW ROCOL Leeds, United Kingdom www.rocol.com	New Age Chemical Delafield, WI www.newagechemical.com
Polyalphaolefin (PAO) Compressor Oil							
32	140	Fastroil Long Life Compressor Oil	-	HI-LO Oil ISO 32	-	FOODLUBE Hi Power 32	-
46	134		-	HI-LO Oil ISO 46	-	FOODLUBE Hi Power 46	PB Syn Compressor 46
68	139		-	HI-LO Oil ISO 68	-	FOODLUBE Hi Power 68	PB Syn Compressor 68
100	150		-	HI-LO Oil ISO 100	-	FOODLUBE Hi Power 100	PB Syn Compressor 100
150	131		-	HI-LO Oil ISO 150	-	FOODLUBE Hi Torque 150	PB Syn Compressor 150
Partial Synthetic Compressor Oil							
32	146	-	Compro XL-S	-	-	-	-
46	145	-		-	-	-	PB Compressor SS 46
68	87	-		-	-	-	PB Compressor SS 68
100	99	-		-	-	-	PB Compressor SS 100
150	105	-		-	-	-	-
220	105	-		-	-	-	-
Centrifugal Compressor Oil							
32	127	-	-	-	-	-	PB Compressor 32 CC
46	136	-	-	-	-	-	PB Compressor 46 CC
15	120	-	-	-	-	-	-
32	160	-	-	-	-	-	-

		OELCHECK Brannenburg, Germany www.oelcheck.de	Petro-Canada Lubricants Mississauga, ON lubricants.petro-canada.com	Quaker Houghton Conshohocken, PA quakerhoughton.com	Schaeffer Manufacturing Co. St. Louis, MO www.schaefferoil.com	TOTAL Specialties Linden, NJ www.totalspecialties.com
Polyalphaolefin (PAO) Compressor Oil						
32	140	Analysis Kit 3	-	-	158 Pure Synthetic Compressor Oil ISO 32	SYNOLAN 1000 32
46	134		-	-	158 Pure Synthetic Compressor Oil ISO 46	SYNOLAN 1000 46
68	139		-	-	158 Pure Synthetic Compressor Oil ISO 68	SYNOLAN 1000 68
100	150		-	-	158 Pure Synthetic Compressor Oil ISO 100	SYNOLAN 1000 100
150	131		-	-	158 Pure Synthetic Compressor Oil ISO 150	SYNOLAN 1000 150
Partial Synthetic Compressor Oil						
32	146	Analysis Kit 3	COMPRO XL-S 32	-	254 HTC Supreme ISO 32	DACNIS SB 32
46	145		COMPRO XL-S 46	-	254 HTC Supreme ISO 46	DACNIS SB 46
68	87		COMPRO XL-S 68	-	254 HTC Supreme ISO 68	DACNIS SB 68
100	99		COMPRO XL-S 100	-	254 HTC Supreme ISO 100	DACNIS SB 100
150	105		COMPRO XL-S 150	-	254 HTC Supreme ISO 150	DACNIS SB 150
220	105		-	-	254 HTC Supreme ISO 220	-
Centrifugal Compressor Oil						
32	127	Analysis Kit 2	-	-	112 HTC Oil ISO 32; 254 HTC Supreme ISO 32, 158 Pure Synthetic Compressor Oil ISO 32, Supreme Turbine Oil with VMT ISO 32	SYNOLAN 1000 32
46	136		COMPRO E 46	-	112 HTC Oil ISO 46; 254 HTC Supreme ISO 46, 158 Pure Synthetic Compressor Oil ISO 46, Supreme Turbine Oil with VMT ISO 46	DACNIS PG 46
15	120		COMPRO E 150	-	-	-
32	160		-	-	112 HTC Oil ISO 32; 254 HTC Supreme ISO 32, 158 Pure Synthetic Compressor Oil ISO 32, Supreme Turbine Oil with VMT ISO 32	-