

INDUSTRIAL & FOOD GRADE LUBRICATION GUIDE

BEL-RAY[®]

Legacy

For over 75 years, Bel-Ray products have proven their value, setting the highest standards of quality and performance. A leader in lubrication technology, our products have been engineered to protect while delivering superior business value for applications in aerospace, automotive, energy, food, marine, military, mining, motorcycle, OEM, powersports, steel and textile and other industries served by our Powersports, Automotive, Industrial and Mining Divisions.



Sustainability

The Environmental Carbon Management (ECM) Program reduces the overall carbon footprint with responsible waste management and eco-friendly/partially recycled products, packaging, collateral and more. Look for the ECM logo on all Bel-Ray products.

CALUMET SPECIALTY PRODUCTS PARTNERS, L.P.

Calumet Specialty Products Partners, L.P. (NASDAQ: CLMT) is a master limited partnership and a leading independent producer of high-quality, specialty hydrocarbon products in North America. Calumet processes crude oil and other feedstocks into customized lubricating oils, solvents and waxes used in consumer, industrial and automotive products; produces fuel products including gasoline, diesel and jet fuel; and provides oilfield services and products to customers throughout the United States. Calumet is based in Indianapolis and produces nearly 3,500 unique specialty products used in the development of the world's most trusted brands and products. Calumet is vertically integrated and holds a comprehensive portfolio of branded products for use in commercial, industrial, and consumer applications. Headquartered in Indianapolis, Indiana, the company employs approximately 1600 people and operates 11 facilities across North America. Calumet products and services are available in approximately 52 countries across the world; serving approximately 4,400 customers globally.

Calumet acquired Bel-Ray in December of 2013.







Viscosity Chart NLGI Chart Bearings Chains Compressors **Engine Oil Enclosed Gear Open Gears Hydraulics** Multipurpose Specialty Wire Ropes Product/Packa





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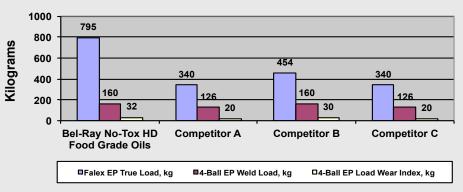




PRODUCT LABEL UPDATE

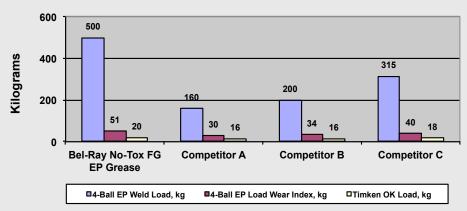
The Bel-Ray® Mining and Industrial products will now feature updated labels that contain the most up to date GHS (Globally Harmonized System of Classification and Labeling of Chemicals) regulatory standards, as well as multilingual regulatory information. In addition to English, the labels include information in Spanish, French, Italian and German. Aerosol products feature regulatory information in 25 languages for global distribution.

NO-TOX[®] HD FOOD GRADE OILS



Bel-Ray remains true to its Mission Statement of providing innovative technology resulting in superior performance and value in Bel-Ray No-Tox HD Food Grade Gear Oil. This can be seen in this gear oil "multi-test" comparison chart. With the highest true load in ASTM D3233B Falex Pin & Vee Block Test, the highest Weld Load and Load Wear Index in ASTM D2783 4-Ball EP Test, Bel-Ray No-Tox HD Food Grade Gear Oil is the exception in the lubrication of machinery gear cases in food processing, pharmaceutical and beverage industries where incidental food contact may occur.

MULTI-TEST COMPARISON OF FOOD GRADE EP GREASES



Bel-Ray No-Tox Food Grade Extreme Pressure Grease is a superior general purpose grease containing PTFE and food grade EP additives. The extreme pressure performance of No-Tox Food Grade Extreme Pressure Grease is exceptional at 500 Kg Weld Load and 51 Kg Load Wear Index on the ASTM D2596 4-Ball EP Test and 20 Kg (45 pounds) on the ASTM D2509 Timken Test. This chart demonstrates that No-Tox Food Grade Extreme Pressure Grease, A Bel-Ray premier general purpose grease, surpasses the competition with respect to both Extreme Pressure and anti-wear capabilities.

UNPARALLELED VALUE

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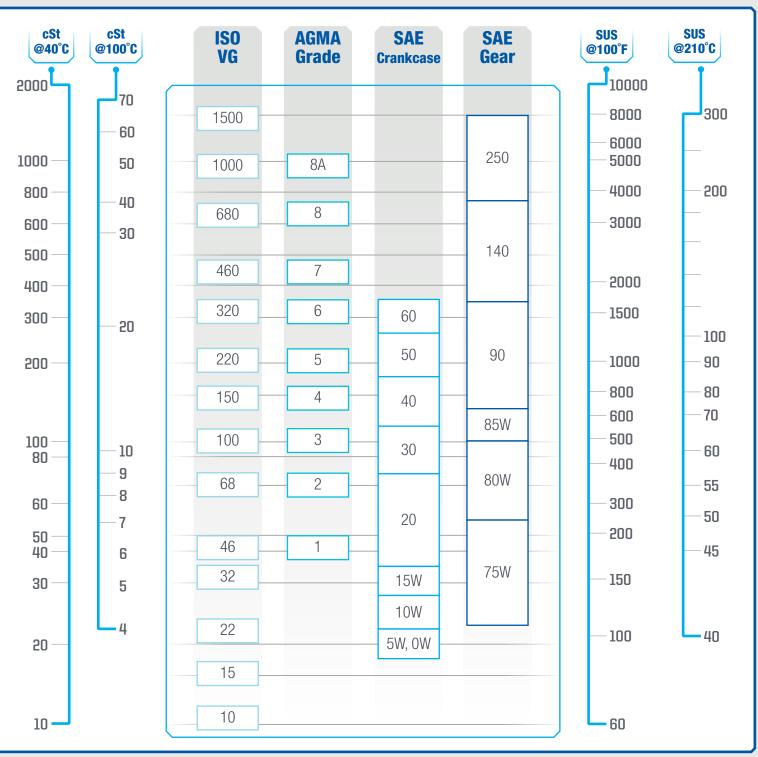
VISCOSITY CLASSIFICATION EQUIVALENTS

SAYBOLT

VISCOSITIES

KINEMATIC VISCOSITIES

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NLGI CONSISTENCY (GRADE NUMBER)	ASTM WORKED PENETRATION AT 25°C (PENETRATION IN 0.1MM)	APPEARANCE	CONSISTENCY FOOD ANALOG
000	445 - 475	FLUID	COOKING OIL
00	400 - 430	SEMI-FLUID	APPLE SAUCE
0	355 - 385	VERY SOFT	MUSTARD
1	310 - 340	SOFT	TOMATO PASTE
2	265 - 295	"NORMAL" GREASE	PEANUT BUTTER
3	220 - 250	FIRM	VEGETABLE SHORTENING
4	175 - 205	VERY FIRM	FROZEN YOGURT
5	5 130 - 160 HA		SMOOTH PÂTÉ
6	86 - 115	VERY HARD	CHEDDAR CHEESE



Many petroleum products are graded according to the ISO Viscosity Classification System, approved by the International Standards Organization (ISO). Each ISO viscosity grade number corresponds to the mid-point of a viscosity range expressed in centistokes (cSt) at 40°C. For example, a lubricant with an ISO grade of 32 has a viscosity within the range of 28.8 – 35.2, the midpoint of which is 32.

Rule-of-Thumb: The comparable ISO grade of a given product whose viscosity in SUS at 100°F is known can be determined by using the following conversion formula: SUS @ $100°F + 5 = \sim cSt @ 40°C$.

NLGI CHART



BEARINGS

							sure	in tant		
		Legacy Product Number	New SAP Product Number	Product Grade	Base Oil ISO VG	Speed	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	Color
1	Biodegradable Multipurpose Extreme Pressure Grease	56851	301544	NLGI 2	100	M	٢	٢	B	
2	Molylube [®] 3% Moly Extreme Pressure Grease LC	67850 67860	301084 300885	NLGI 0 NLGI 1	150 220	M		٢	M E	
3	Molylube [®] 5% Moly Extreme Pressure Grease AC	69520 69480 69500	301753 300886 300936	NLGI 0 NLGI 1 NLGI 2	150 220 220	M H		٢	M	
4	Molylube [®] 5% Moly Extreme Pressure Grease LC	67820 67832	301612 301083	NLGI 1 NLGI 2	220 460			٢	M E	
5	Molylube [®] 87M Extreme Pressure Grease 150-0	20250	301187	NLGI 1	150	M		٢	M	
6	Molylube® Extreme Pressure Grease AC	23220 23240	301201 301696	NLGI 1 NLGI 2	220 150/220	M		٢	M E	
7	Molylube® Extreme Pressure High Viscosity Grease	20254 20264	301679 301682	NLGI 1 NLGI 2	680 680	L M	١	٢	M	
		M MINER	AL (SS) SEMI-	SYNTHETIC (S SYN	THETIC				

ECO-FRIENDLY

M MEDIUM

SPEED

LOW

NSF® REGISTERED

B BIODEGRADABLE

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A high-performance, Extreme Pressure grease for general purpose lubrication. Vegetable oil-based for excellent biodegradability and high renewable content. Excellent water washout resistance and mechanical and thermal stability. Superior load-carrying capabilities as well as outstanding rust, corrosion and wear protection for extended component life. The rate of biodegradation is performed by the ASTM test Method D5864 (OECD 301B Modified Sturm Test). Useful temperature range -10°C to 70°C (14°F to 158°F). THICKENER: Organoclay

MOLYLUBE[®] 3% MOLY EXTREME PRESSURE GREASE LC

A high-performance, lithium complex grease containing 3% molybdenum disulfide, as required by many off-highway equipment OEMs. Exceptional mechanical and thermal stability, excellent anti-wear and Extreme Pressure properties, unsurpassed rust and corrosion protection and resistance to water. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the all major OEMs for multipurpose Extreme Pressure greases. Useful temperature range -18°C to 177°C (0°F to 350°F). THICKENER: Lithium Complex

MOLYLUBE[®] 5% MOLY EXTREME PRESSURE GREASE AC

A high performance aluminum complex grease fortified with excellent Extreme Pressure and anti-wear properties for maximum wear protection. Contains 5% molybdenum disulfide as required by many off-highway equipment OEMs. Weld Load on 4-Ball EP test performance of 800 plus kg and Load Wear Index of 135 kg. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the all major OEMs for multipurpose Extreme Pressure greases. Useful temperature range -18°C to 177°C (0°F to 350°F). THICKENER: Alumi ım Complex

MOLYLUBE[®] 5% MOLY EXTREME PRESSURE GREASE LC

A high-performance, lithium complex grease fortified with 5% molybdenum disulfide as recommended by many equipment manufacturers. Excellent Extreme Pressure capabilities as well as outstanding mechanical and thermal stability. Unsurpassed rust and corrosion protection and resistance to water. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Caterpillar (Bucyrus International) SD4711 and Joy Global P&H 472 standards for multipurpose greases. Useful temperature range -18°C to 177°C (0°F to 350°F). THICKENER: Lithium Complex

MOLYLUBE[®] 87M EXTREME PRESSURE GREASE 150-0

Molylube 87M EP Grease is an aluminum complex multi-purpose grease. It contains Molylube Solids, a Bel-Ray proprietary blend of molybdenum disulfide and select graphite to reduce operating temperature and wear. Molylube 87M EP Grease is designed to extend the service life of machine components in the severe duty applications encountered in mining, quarrying, construction, cement and other heavy industries. Molylube 87M EP Grease is especially effective when used to lubricate the suspension components of heavy-duty equipment such as excavators, dozers, loaders and haul trucks. THICKENER: Aluminum Complex

6 MOLYLUBE® EXTREME PRESSURE GREASE AC

A severe-duty, impact-resistant, aluminum complex grease fortified with molybdenum disulfide. Excellent Extreme Pressure capabilities, outstanding mechanical and thermal stability. Exceptional water washout resistance, rust and corrosion protection. Exceeds all of the multipurpose grease requirements of walking draglines. electric rope shovels and hydraulic excavators and meets the requirements of the Bucyrus International SD4711, Caterpillar BI010196 and Joy Global P&H 472 standards for multipurpose greases. Useful temperature range -12°C to 177°C (10°F to 350°F). THICKENER: Aluminum Complex

MOLYLUBE® EXTREME PRESSURE HIGH VISCOSITY GREASE

A high viscosity base oil complex grease fortified with molybdenum disulfide and excellent Extreme Pressure properties. Excellent mechanical and thermal stability Highly water resistant. Grades 680-1 and 1000-1 are Komatsu approved. Useful temperature range 0°C to 177°C (32°F to 350°F). THICKENER: Aluminum Complex

BIODEGRADABLE MULTIPURPOSE EXTREME PRESSURE GREASE

BEARINGS

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		Legacy Product Number	New SAP Product Number	Product Grade	Base Oil ISO VG	Speed	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	Color
1	Molylube® High Temperature Grease	17830	301184	NLGI 1	150/220	L M		٢	5	
5	Molylube [®] Low Temperature Multipurpose Grease	46420	301042	NLGI 1	46	M H		٢	M E	
3	Molylube [®] Multipurpose Extreme Pressure Grease with Moly	40900	301524	NLGI 1	220	M H		٢	M	
4	No-Tox® Food Grade Clear Grease	62250 61730 62260	301567 301234 301568	NLGI 1 NGLI 1.5 NLGI 2	100	M H		٢		Clear
5	No-Tox® Food Grade Extreme Pressure Grease	63100	301243	NLGI O	100	M H		٢		
6	No-Tox® Food Grade Low Temperature Grease	62470	301573	NLGI 1	32	M H		٢	()	
7	No-Tox® Food Grade Synthetic Extreme Pressure Grease	65380 65390	301598 301319	NLGI 1 NLGI 2	220	L H		٢	()	

(SS) SEMI-SYNTHETIC

ECO-FRIENDLY

MEDIUM SPEED

(M) MINERAL

LOW

B BIODEGRADABLE

SYNTHETIC

NSF® REGISTERED

MOLYLUBE® HIGH TEMPERATURE GREASE

A synthetic, ester-based high-temperature grease with molybdenum disulfide, designed specifically for extended lubrication cycles in heavily loaded applications. Useful temperature range -18°C to 316°C (0°F to 600°F). THICKENER: Sodium Complex

MOLYLUBE[®] LOW TEMPERATURE MULTIPURPOSE GREASE

An aluminum complex grease fortified with Molylube Solids. Excellent Extreme Pressure capabilities. Outstanding mechanical and thermal stability. Exceptional water washout resistance, rust and corrosion protection. It has excellent pumpability characteristics for exceptionally cold ambient conditions. Useful temperature range -40°C to 149°C (-40°F to 300°F). THICKENER: Aluminum Complex

MOLYLUBE[®] MULTIPURPOSE EXTREME PRESSURE GREASE WITH MOLY

An aluminum complex, multipurpose grease fortified with molybdenum disulfide for effective heavy-duty service. Outstanding mechanical and thermal stability to withstand shock and heavy loading found in severe environments of mining, construction and process industries. Exceptional water washout resistance, rust and corrosion protection. Exhibits good cohesive and adhesive characteristics. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Bucyrus International SD4711, Caterpillar BI010196 and Joy Global P&H 472 standards for multipurpose greases. Useful temperature range -26°C to 177°C (-15°F to 350°F). THICKENER: Aluminum Complex



A mineral oil-based, aluminum complex food machinery grease developed specifically for use in the "clean" industries, such as food, beverage, pharmaceutical and personal care. Fortified with waterproof properties and rust/corrosion inhibitors, this grease is ideal for wet environments. Useful temperature range -20°C to 177°C (-4°F to 350°F). THICKENER: Aluminum Complex

NO-TOX® FOOD GRADE EXTREME PRESSURE GREASE

A heavy-duty, Extreme Pressure, general purpose grease with excellent resistance to water washout in addition to its exceptional anti-wear and mechanical stability Useful temperature range -20°C to 177°C (-4°F to 350°F). THICKENER: Aluminum Complex



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NO-TOX® FOOD GRADE LOW TEMPERATURE GREASE

A synthetic PAO-based grease with exceptional low-temperature properties. It is an excellent lubricant for bearings operating in freezers and chillers. Useful temperature range -68°C to 177°C (-90°F to 350°F). THICKENER: Aluminum Complex



A synthetic PAO-based, tacky, heavy-duty, Extreme Pressure, general purpose grease with excellent resistance to water washout in addition to its exceptional antiwear and Extreme Pressure properties. Useful temperature range -50°C to 204°C (-58°F to 400°F). THICKENER: Aluminum Complex

NO-TOX® FOOD GRADE SYNTHETIC EXTREME PRESSURE GREASE

		cy uct ber	SAP uct ber	uct e	Base Oil ISO VG	p	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	
		Legacy Product Number	New SAP Product Number	Product Grade	Base	Speed	Extre	Rust 6 Wa	Prod	Color
1	No-Tox® HD Food Grade Grease	62270 62280	301569 301059	NLGI 1 NLGI 2	220	M				
2	Termalene® Extreme Pressure Grease LC	70319	301087	NLGI 1	220	M		٢	M	
3	Termalene® Multipurpose Extreme Pressure Grease	72420 72440	301765 301091	NLGI 1 NLGI 2	150/220	M		٢	M	
4	Termalene® Heavy Duty Construction Grease	72560	301338	NLGI 2	220/320	L M		٢	M	
5	Waterproof Grease	99540	301293	NLGI 2	150/220	M		٢	M E	



NO-TOX® HD FOOD GRADE GREASE

Odorless, tasteless, waterproof, heavy-duty, general purpose grease designed for applications requiring outstanding anti-wear properties. Contains PTFE. Useful temperature range -9°C to 177°C (15°F to 350°F). THICKENER: Aluminum Complex

TERMALENE® EXTREME PRESSURE GREASE LC

Termalene Extreme Pressure Grease LC is a multipurpose, Extreme Pressure, water resistant lithium complex grease. It provides outstanding film strength, adhesive properties, superior wear protection in heavily loaded and shock-load conditions. This product provides excellent lubrication over a wide range of operating conditions. Useful temperature range -40°C to 177°C (-40°F to 350°F). THICKENER: Lithium Complex

TERMALENE® MULTIPURPOSE EXTREME PRESSURE GREASE

An aluminum complex grease with exceptional retention properties and high load-carrying capacity. Adhesive and virtually waterproof. Excellent for bushing and pin applications. Its performance in General Electric's wheel motor hub bearings is unsurpassed. Low oil separation and good pumpability make it ideal for use in automatic lubrication systems. Useful temperature range -18°C to 177°C (0°F to 350°F). THICKENER: Aluminum Complex



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TERMALENE® HEAVY DUTY CONSTRUCTION GREASE

An aluminum complex grease with exceptional retention properties. Extremely adhesive and virtually waterproof. Excellent for bushing and pin applications. Its performance in General Electric's wheel motor hub bearings is unsurpassed. Load carrying and anti-wear capabilities far surpass conventional greases in applications where bearings are subjected to very high loads, slow speeds and elevated temperatures. Appropriate when temperatures are elevated to 232°C (450°F) for short bursts and not continuous use. Useful temperature range -12°C to 177°C (10°F to 350°F). THICKENER: Aluminum Complex



A fibrous waterproof grease, providing excellent protection from dirt and saltwater by resisting water and sealing out contaminants. Useful temperature range -18°C to 177°C (0°F to 350°F). THICKENER: Al-Ba-Complex



						sure		i-Rust, 1		
		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Penetrating	Anti-Wear, Anti-Rust, Anti-Corrosion	Product Type	Color
1	Bakerylube™ Oven Chain Lubricant	56720	301543	Cold Chain			٢	٢	E	
5	No-Tox® Food Grade Chain Lubricant	61760	301056	ISO 100	N		٢	٢		
3	No-Tox® Food Grade Multipurpose Lubricant Spray	61881	301561	ISO 100	N		٢	٢	E C	Colorless
4	No-Tox® Food Grade Waterproof Chain Lubricant	64060 64070	301247 301248	ISO 460 ISO 460 (Spray)	N		٢	٢	E C	
5	No-Tox® Syntra™ Food Grade Synthetic Oil	64234	301315	ISO 32			٢	٢	5	
6	Synthetic Chain Lubricant	58750	301232	ISO 220			١	٢	5 E	
7	Waterproof Chain Lubricant	66410	300883	ISO 680 (Spray)	N	١	١	٢	M E	
		M MINER	AL SS SEMI-	SYNTHETIC (5 SYN	THETIC				

E ECO-FRIENDLY

TEMPERATURE

LOW

N NORMAL H HIGH

NSF[®] REGISTERED

B BIODEGRADABLE

BAKERYLUBE[™] OVEN CHAIN LUBRICANT

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Unique oven chain lubricants made from mixtures of graphite powders and fluids, designed to lubricate bakery oven chains at varying temperatures. See PDS for useful temperature range. ATTRIBUTE: Solid Lubricant

NO-TOX® FOOD GRADE CHAIN LUBRICANT

An excellent general purpose chain lubricant designed for most applications, especially wet environments requiring a medium viscosity oil. **ATTRIBUTE: Emulsifiable with Water**

NO-TOX® FOOD GRADE MULTIPURPOSE LUBRICANT SPRAY

An aluminum complex grease with exceptional retention properties. Extremely adhesive and virtually waterproof. Excellent for bushing and pin applications. Its performance in General Electric's wheel motor hub bearings is unsurpassed. Load carrying and anti-wear capabilities far surpass conventional greases in applications where bearings are subjected to very high loads, slow speeds and elevated temperatures. Appropriate when temperatures are elevated to 232°C (450°F) for short bursts and not continuous use. Useful temperature range -12°C to 177°C (10°F to 350°F).

NO-TOX[®] FOOD GRADE WATERPROOF CHAIN LUBRICANT

A high-performance, food-grade chain lubricant with excellent penetrating properties to provide superior component protection, especially in wet environments. **ATTRIBUTE: Emulsifiable with Water**



A state-of-the-art PAO synthetic chain lubricant with exceptional penetration and anti-wear properties. For spiral freezer chains. Used in extremely low temperature applications.



A superb ester synthetic chain lubricant designed for Extreme Pressure and high temperature applications. Useful temperature range -23°C (-10°F) to 204°C (400°F). ATTRIBUTE: Self-Cleaning Properties



A heavy-duty, long-lasting oil for chains and bearings operating in most conditions, especially wet environments.

COMPRESSORS

NO-TOX® HD FOOD GRADE OTL

A series of multipurpose white mineral lubricating oils designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressors, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.



NO-TOX[®] SYNTRA[™] FOOD GRADE SYNTHETIC OIL

A synthetic PAO-based, non-toxic, high-performance, multipurpose lubricant designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressors, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverages, pharmaceutical and personal care.

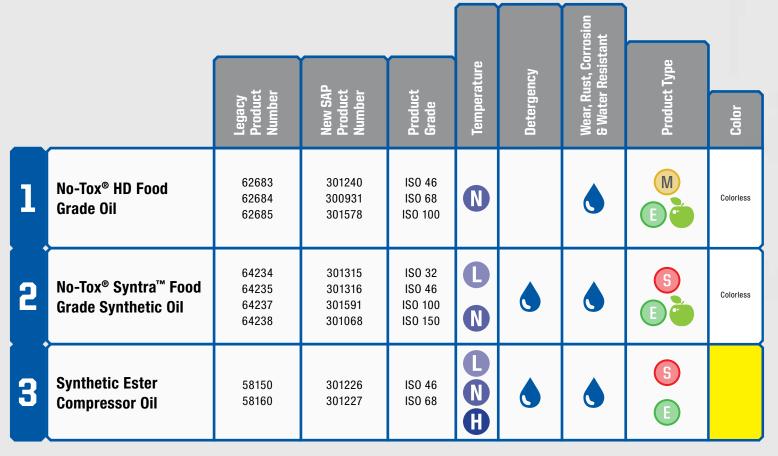


SYNTHETIC ESTER COMPRESSOR OIL

B BIODEGRADABLE

LOW

A superior diester synthetic compressor oil specifically formulated for rotary and reciprocating compressors. Diester technology makes this a very clean, long-life compressor lubricant. Low deposit formation and excellent reliability.



(SS) SEMI-SYNTHETIC (S) SYNTHETIC M MINERAL

NORMAL

TEMPERATURE



HIGH

HEAVY DUTY DIESEL ENGINE OIL

An exceptional motor oil formulated for use in diesel and gasoline engines where reduced consumption and extended oil drain intervals are desired. Provides superior lubrication performance in heavy-duty diesel or gasoline engine applications commonly found in the mining, transportation and marine industries. API SL/ CI-4. An excellent oil for mixed fleet use. TBN 14 base level for extended change intervals.

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	Legacy Product Number	New SAP Product Number	Product Grade	Multi-Vis Grade	Wear, Rust, Corrosion 8 Foam Resistant	Product Type	Color
1 Heavy Duty Diesel Engine Oil	61580	301054	SAE 15W-40	٢		M	



ENGINE OIL

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Worm Gears	Wear, Rust & Corrosion Resistant	Product Type	Color
1	Industrial Gear Oil	N/A N/A N/A N/A N/A	302182 302184 302185 302186 302191	ISO 100 ISO 150 ISO 220 ISO 320 ISO 460		٢			M	
5	No-Tox® HD Food Grade Oil	62685 62686 62687 62688 62689	301578 301579 301241 300920 301242	ISO 100 ISO 150 ISO 220 ISO 320 ISO 460			٢	٢		Colorless
3	No-Tox® Syntra™ Food Grade Synthetic Oil	64237 64238 64239 64240 64241	301591 301068 300934 301592 301317	ISO 100 ISO 150 ISO 220 ISO 320 ISO 460			٢	٢	(5)	Colorless
4	Semi-Fluid Grease	43520	301212	N/A		٢		٢	M	
5	Synthetic Gear Oil	66900 66920 66940 66960 66980	301321 301605 301606 301607 301608	ISO 220 ISO 320 ISO 460 ISO 680 ISO 1000		٢		٢	5	
6	Transmission Fluid TO-4	N/A N/A N/A	302302 302303 302304	SAE 10W SAE 30W SAE 50W					M	
7	Turbine Oil	N/A N/A N/A N/A N/A	302152 302154 302171 302172 302173	ISO 32 ISO 68 ISO 100 ISO 150 ISO 220					M	

INDUSTRIAL GEAR OIL

A series of premium gear lubricants formulated to provide optimum performance and protection in all types of enclosed gear sets. They are blended with selected grades and thermally stable paraffinic base stocks and fortified with an advanced additive system designed to deliver ultimate protection against gear and bearing wear, rust, oxidation, and hydrolytic decomposition.

NO-TOX[®] HD FOOD GRADE OIL

A series of multipurpose white mineral lubricating oils designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

NO-TOX[®] SYNTRA[™] FOOD GRADE SYNTHETIC OIL

A synthetic, PAO-based, non-toxic, high-performance, multipurpose lubricant designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

4 **SEMI-FLUID GREASE**

A semi-fluid aluminum complex lubricant that provides superior water repellence and heat resistance while remaining stable to protect against severe shock loads. For use in semi-enclosed or leaky gear cases. This lubricant is rheopectic (shear thickening) to control leakage. Exceptional Extreme Pressure properties.



A totally synthetic hydrocarbon and ester combination gear lubricant. Outstanding Extreme Pressure and anti-wear properties, as well as excellent viscositytemperature properties. Extremely low coefficients of friction and traction. Compatible with mineral oils. Grades ISO VG 220 thru ISO VG 1000 are approved by Flender.



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TRANSMISSION FLUID TO-4

A heavy duty transmission and drive train multi-functional lubricant that contains a balanced additive technology that provides the friction control, low gear wear, good elastomer compatibility and oxidation stability performances, required to meet the specifications for power shift transmissions, final drive and hydraulic systems. TO-4 supersedes and replaces Caterpillar TO-2. It is specifically formulated to meet Caterpillar's TO-4 and Caterpillar TO-4M requirements.



A rust and oxidation inhibited industrial oil specifically engineered for the lubrication of medium and heavy-duty, high temperature gas, steam, and hydraulic turbine systems. Offer superior protection from rusty water contaminated systems and aggressively prevent sludge and deposit formation caused by oil oxidation. In addition, protect against wear of critical components under severe operating conditions and systems that function under high temperatures and pressure.

			sure		sistant		1			
		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Open Gears	Wear, Rust & Corrosion Resistan	Product Type	Calar
1	Clear Gear™ Lubricant	21324 21325 21326	301688 301193 301689	>10K >16K >28K		٢	١	٢	5	
2	Molylube® Gear Tac Tacky Open Gear Lubricant	68940	301746	Medium Light		٢		٢	55 E	
3	Molylube® Mill Gear Grease	76992	301343	Heavy		٢		٢	M E	
4	Molylube® SF 100 Semi-Synthetic Open Gear Lubricant	76990 77000 77010 77020	301772 300939 301344 301773	Light Heavy Medium Sub-Arctic		٢		٢	M	

(SS) SEMI-SYNTHETIC (S) SYNTHETIC M MINERAL [ECO-FRIENDLY 🎽 NSF® REGISTERED B BIODEGRADABLE L LOW N NORMAL H HIGH **TEMPERATURE**

CLEAR GEAR™ LUBRICANT

A high-viscosity synthetic hydrocarbon-based open gear lubricant formulated for grinding mill, kiln and other process open gear systems. Provides full fluid film or hydrodynamic lubrication. Completely fluid and freely drains from shrouds and tooth roots. Allows for gear tooth inspections without complete cleaning. Metso Mineral and Outotec approved.

MOLYLUBE® GEAR TAC TACKY OPEN GEAR LUBRICANT

A high-viscosity paraffinic oil chemically fortified with Molylube Solids and Extreme Pressure additives. Proprietary polymer technology promotes superior retention properties, minimizing consumption and housekeeping. Maintains lube film in wet conditions. See PDS for temperature range and application instructions.

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MOLYLUBE[®] MILL GEAR GREASE

An aluminum complex, semi-fluid gear lubricant specifically formulated to provide superior lubrication of Type 2 open gear systems. It provides retention characteristics, yet it drains freely from shrouds and troughs. Superior Extreme Pressure, anti-wear and anti-rust capability for extended component life while reducing consumption. Contains Molylube Solids. Heavy Grade - Metso Minerals approved.

MOLYLUBE® SF 100 SEMI-SYNTHETIC OPEN GEAR LUBRICANT

An environmentally friendly, state-of-the-art lubricant that excels as a multi-service open gear lubricant. An aluminum complex grease fortified with Molylube solids in a semi-synthetic base oil. Excellent Extreme Pressure and anti-wear properties. Proven unsurpassed performance in bushings. Exceeds all of the open gear lubricant requirements.



								rrosion ant		
		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Multi-Vis Grade	Ashless	Wear, Rust, Corrosion & Foam Resistant	Product Type	Calar
1	Clear Blue Ashless AW Hydraulic Oil	N/A N/A N/A	302258 302259 302260	ISO 32 ISO 46 ISO 68	2				M	
5	No-Tox® BioFR Hydraulic 46	65422	301919	ISO 46			١	٢	(5)	
3	No-Tox® HD Food Grade Oil	62680 62681 62682 62683 62684	301060 301002 301061 301240 300931	ISO 15 ISO 22 ISO 32 ISO 46 ISO 68				٢		Coloriess
4	No-Tox® Syntra™ Food Grade Synthetic Oil	64234 64235	301315 301316	ISO 32 ISO 46		١		٢		Colorless
5	Raylene Ashless Multi- Viscosity Hydraulic Oil	71750	300938	ISO 46			١	٢	M E	

(SS) SEMI-SYNTHETIC (S) SYNTHETIC M MINERAL (B) BIODEGRADABLE (E) ECO-FRIENDLY 🍐 NSF® REGISTERED 🚺 low N normal Η high TEMPERATURE

CLEAR BLUE ASHLESS AW HYDRAULIC OIL

A special hydraulic fluid formulated from highly-refined base stocks and proprietary zinc-free additive technology to offer ultimate protection of operating equipment and the environment. The zinc-free (ashless, no ZDDP in composition) additive formulation was developed for service applications within environmentally sensitive areas such as parks, bodies of water, recreational areas, amusement parks, ski resorts, in-ground lifts and equipment operating in populated areas. ATTRIBUTE: Anti-wear

NO-TOX® BIOFR HYDRAULIC 46

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A HFD-U type fire resistant hydraulic fluid. It utilizes synthetic polyol ester type fire resistant hydraulic fluid designed for severe operating conditions in hydraulic applications where petroleum and other synthetic hydraulic fluids create a potentially unsafe environment and where a fire hazard exists. It maintains its fire resistant characteristics, providing extended safe service economically. It is Factory Mutual certified, NSF H1 registered and readily biodegradable. It is Kosher and Pareve approved, as well as Halal certified.

NO-TOX® HD FOOD GRADE OIL

A series of multipurpose white mineral lubricating oils designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications.

NO-TOX[®] SYNTRA[™] FOOD GRADE SYNTHETIC OIL

A synthetic, PAO-based, non-toxic, high-performance, multipurpose lubricant designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

5 **RAYLENE ASHLESS MULTI-VISCOSITY HYDRAULIC OIL**

An ashless, zinc-free, premium-quality, multi-viscosity hydraulic oil designed for high- and low-pressure hydraulic systems. Contains foam, corrosion and oxidationinhibitors. Its high-viscosity index and low pour point to ensure excellent fluidity on cold starts. Approved by Racine.



MULTIPURPOSE 0

				sure	luid	istant				
		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Penetrating Fluid	Wear, Rust & Corrosion Resistant	Product Type	Color
1	6 in 1® Multipurpose Lubricant	12300 12310 (Spray)	301179 300873	ISO 3				٢	M	
2	No-Tox® Food Grade Divider Oil	21100 24400 62320	301685 300991 301570	ISO 15 ISO 32 ISO 68				٢	M E	Colorless
3	No-Tox® Food Grade Multipurpose Lubricant Spray	61881	301561	ISO 100				٢	E C	Colorless
4	No-Tox® Food Grade White Grease Spray	62440	301571	ISO 220 (Base), NLGI 2		٢		٢	M E	
5	No-Tox® HD Food Grade Oil	62680 62681 62682 62683 62684 62685 62685 62686 62687 62688 62688 62689	301060 301002 301061 301240 300931 301578 301579 301241 300920 301242	ISO 15 ISO 22 ISO 32 ISO 46 ISO 68 ISO 100 ISO 150 ISO 220 ISO 320 ISO 460				٢	E Č	Colorless
6	No-Tox® Syntra™ Food Grade Synthetic Oil	64234 64235 64237 64238 64239 64240 64241	301315 301316 301591 301068 300934 301592 301317	ISO 32 ISO 46 ISO 100 ISO 150 ISO 220 ISO 320 ISO 460				٢	E Č	Colorless

(M) MINERAL (SS) SEMI-SYNTHETIC (S) SYNTHETIC

(B) BIODEGRADABLE (E) ECO-FRIENDLY 🍐 NSF® REGISTERED

LOW NORMAL H HIGH **TEMPERATURE**

6 IN 1[®] MULTIPURPOSE LUBRICANT

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A high-performance semi-synthetic multipurpose lubricant. The exceptional lubrication and penetrating properties make the removal of frozen fasteners, rusted bolts and fittings fast and easy. Displaces water, cleans as it lubricates and provides excellent rust protection. USDA H2 rated and is highly recommended for protection of electrical contacts and connections in damp environments. ATTRIBUTE: Aerosol Option

NO-TOX® FOOD GRADE DIVIDER OIL

A non-staining, general purpose lubricant that can be used as a knife lubricant, divider oil, rust protector, mold-release agent and more in the 'clean' industries. H1 and 3H registered.

NO-TOX[®] FOOD GRADE MULTIPURPOSE LUBRICANT SPRAY

A versatile, general-purpose lubricant designed for all types of equipment found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care. Ideal for preventing rust and displacing water from equipment parts; cleans, lubricates and preserves. ATTRIBUTE: Aerosol

NO-TOX[®] FOOD GRADE WHITE GREASE SPRAY

A premier, high-performance grease fortified with low-friction lubricating solids, anti-wear additives and rust inhibitors designed to provide the optimum equipment and operational protection to the machinery. ATTRIBUTE: Aerosol

NO-TOX[®] HD FOOD GRADE OIL

A series of multipurpose white mineral lubricating oils designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

6 NO-TOX[®] SYNTRA[™] FOOD GRADE SYNTHETIC OIL

A synthetic, PAO-based, non-toxic, high-performance, multipurpose lubricant designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

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		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Seize	Mold Release Agents	Penetrating Fluid	Rust Preventative	Product Type	Color
1	Electric Switch Contact Black Grease	54850	301216	100 (Base), NLGI 2	١				M	
2	Electric Switch Contact White Grease	51100	301532	220/320 (Base), NLGI 2	١					
3	High Temperature Anti-Seize Compound	44500	301526	68 (Base), NLGI 1					M	
4	Kiln Car Grease	45810	300994	32 (Base), NLGI 1					()	
5	Mold Release Compound	72050	301763	ISO 100 (Base), NLGI 2		٢			M	
6	Molylube® Anti-Seize Compound	67710 67700	301610 301082	NLGI 1 NLGI 2	١			٢	M	

ELECTRIC SWITCH CONTACT BLACK GREASE

Non-melting, anti-seize paste with PTFE and moly for exceptional low frictional properties and load-carrying ability of sliding surfaces and thread applications. Use will result in break-away torque, a positive measure of its effectiveness. Thermal stability prevents seizing, galling, deterioration and minimizes friction for a long and useful life.

ELECTRIC SWITCH CONTACT WHITE GREASE

A clean, non-melting anti-seize paste with PTFE for exceptional low frictional properties and load-carrying ability of sliding surfaces and thread applications. Thermal stability prevents seizing, galling, deterioration and minimizes friction for a long and useful life.

HIGH TEMPERATURE ANTI-SEIZE COMPOUND

An outstanding anti-seize and lubricating compound for threaded and static parts that prevents galling, rust, fretting, galvanic pitting, seizure and corrosion of threads. Preserves integrity during long and severe service and promotes easy disassembly. Its unique blend of graphite and copper lubricating solids allows for exceptional performance at both elevated and ambient temperatures. Useful temperature range -29°C to 1093°C (-20°F to 2000°F).



A synthetic, high-temperature kiln car lubricating grease containing high-performance graphite capable of lubrication up to 538°C (1000°F).



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MOLD RELEASE COMPOUND

A mineral-based, paste mold release paste with an organoclay thickener for high-temperature applications. It is light-colored and will not have an effect on molded pieces.



A non-melting, organoclay grease with 40% of molybdenum disulfide and graphite lubricating solids that protects threads from galling, seizing and fretting. Extreme Pressure properties protect threads from galling, seizing and fretting. Superb rust/corrosion protection.



							iluid	ative		
		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Seize	Mold Release Agents	Penetrating Fluid	Rust Preventative	Product Type	Color
1	Molylube® Anti-Seize Silicone Compound With Moly	14600	300988	NLGI 2	٢				S E	
2	Molylube [®] Copper Tool Joint Compound	21020	301190	NLGI 1	٢				M	
3	No-Tox® Food Grade Air Line Lubricant	62050	301564	ISO 22						Coloriess
4	No-Tox® Food Grade Seamer Oil	64227	301312	ISO 150						Colorless
5	No-Tox® Food Grade Silicone Lubricant Spray	61780	300879	ISO 320						Colorless
6	Sugar Clear Gear & Bearing Lubricant	21342	301691	Heavy					5 E	Coloriess

MOLYLUBE® ANTI-SEIZE SILICONE COMPOUND WITH MOLY

An anti-seize compound containing a high percentage of molybdenum disulfide. The base fluid is silicone, which offers excellent high- and low-temperature characteristics. It is very resistant to oxidation and is not subject to gum or vanish formation. For continuous operation, the temperature range is -46°C to 204°C (-50°F to 400°F) with fringe temperatures up to 316°C (600°F).

MOLYLUBE® COPPER TOOL JOINT COMPOUND

Developed for severe applications such as those found in surface and underground mining rock drills and rotary head drills. Recommended for applications involving high-temperature and pressure, vibration and worn or damaged threads. Brush on at 'make-up,' provides excellent protection even when threads become very hot. Excellent rust prevention and wear protection while ensuring easy disassembly properties with low breakout torques.

NO-TOX® FOOD GRADE AIR LINE LUBRICANT

Designed with air line and pneumatic tools in mind, this versatile lubricant maximizes air tool life while optimizing pneumatic system performance.



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NO-TOX® FOOD GRADE SEAMER OIL

Specifically designed for can seaming equipment. Excellent in high-moisture environments.



A high-viscosity silicone aerosol lubricant designed for general purpose use in a wide range of applications. ATTRIBUTE: Aerosol

SUGAR CLEAR GEAR & BEARING LUBRICANT

A high viscosity, synthetic blend lubricant for open gears and bearings found in the sugar processing industry. The product is compounded with a proprietary chemical system that includes Extreme Pressure, anti-wear and rust and corrosion protection. Synthetic polymers maximize film formation and bearing sealing to eliminate in-season production losses.

		- # 5	e # # #	#	rature	Viscosity Base	Penetrating Fluid	Extreme Pressure	Wear, Rust & Corrosion Resistant	Product Type	
_		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Viscos	Penetr	Extrem	Wear, Rust & Corrosion Re	Produc	
1	Biodegradable Wire Rope Lubricant	56850	301221	46/68		L				E	
2	Non-Melt Wire Rope Coating Grease	40060	301206	3		H				E	
3	Wire Rope Lubricant	66680 (High Viscosity) 66700 (Low Viscosity)	301602 301603	N/A		L H				E	

BIODEGRADABLE WIRE ROPE LUBRICANT

A unique rope lubricant that maximizes rope, sheave and drum life without harming the environment. Approximately 85% biodegradable in 28 days. Excellent for sensitive environments including marine areas. The rate of biodegradation is performed by the ASTM test Method D5864 (OECD 301B Modified Sturm Test).

NON MELT WIRE ROPE COATING GREASE

A general purpose, non-melting grease that is formulated for optimum water resistance, adhesion, mechanical stability, corrosion protection and oxidation resistance. The bodying agent in the Non-Melt Wire Rope Coating Grease is a stable chemical compound. This feature makes it completely structurally and chemically stable under all service and storage conditions. It won't corrode steel and copper bearing alloys and is compatible with conventional seal materials and with all Kirkpatrick Wire Rope Lubrication Systems. Suitable for use with clamp type wire rope lubricator system.

WIRE ROPE LUBRICANT

or through most automatic lube systems. Useful temperature range -46°C to 60°C (-50°F to 140°F).

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(M) MINERAL (SS) SEMI-SYNTHETIC (S) SYNTHETIC B BIODEGRADABLE 🔳 ECO-FRIENDLY 🎽 NSF® REGISTERED LOW NORMAL Low H High -VISCOSITY-

A specially formulated penetrating lubricant for wire ropes. Can be applied directly onto wet ropes while providing excellent adhesive properties, reducing consumption. Prevents inner strand corrosion and rubbing wear. It is an all-season product that does not require change of grades as temperatures fluctuate. Applicable manually

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Bakerylube™ Oven Chain L	ubricant	
Cold Chain	Pail 301543150025	12
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NLGI 2	Lined Keg 301544150014	6
Biodegradable Wire Rope	Lubricant	
46/68	Pail 301221150025	28
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ISO 46	Bulk 302259150000 Tote 302259150316 Drum 302259150007	20
ISO 68	Bulk 302260150000 Tote 302260150316 Drum 302260150007	20
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>10K	Drum 301688150002	18
>16K	Drum 301193150002	18
>28K	Drum 301689150002	18
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100 (Base), NLGI 2	Pail 301216150025	24
Electric Switch Contact W	hite Grease	
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SAE 15W-40	Drum 301054150007	15
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68 (Base), NLGI 1	Pail 301526150025	24
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ISO 100	Drum 302182150003	16
ISO 150	Bulk 302184150000 Tote 302184150316 Drum 302184150003	16
ISO 220	Bulk 302185150000 Drum 302185150003	16
ISO 320	Bulk 302186150000 Drum 302186150003	16
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32 (Base), NLGI 1	Drum 300994150002	24
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100 (Base), NLGI 2	Drum 301763150002	24
Molylube® 3% Moly Extrem	me Pressure Grease LC	
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NLGI 1	Fluid Bag 300885150526 Lined Drum 300885150004	6

PRODUCT GRADE	AVAILABLE PACKAGING	PAGE
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NLGI 1	Fluid Bag 301612150526	6
NLGI 2	Fluid Bag 301083150526	6
Molylube® 87M Ex	treme Pressure Grease 150-0	
NLGI 1	Lined Drum 301187150004	6
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NLGI 1	Pail 301610150025	24
NLGI 2	Pail 301082150025 Caulking Cartridge 301082150251	24
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NLGI 2	Brush Top 300988150260	26
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Molylube® Extrem	e Pressure Grease AC	
NLGI 1	Lined Drum 301201150004	6
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Medium Light	Lined Drum 301746150004	18
	mperature Grease	1
NLGI 1	Cartridge 301184150230	8
	mperature Multipurpose Grease	
NLGI 1	Fluid Bag 301042150526 Lined Drum 301042150004	8
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Heavy	Drum 301343150002	18
	rrpose Extreme Pressure Grease With Moly	
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NLGI O	Keg 301243150013 Lined Keg 301243150014	8
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N/A	Pail 301212150025	16		
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NLGI 1	Keg 301087150014	10		
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PRODUCT GRADE	AVAILABLE PACKAGING	PAGE #			
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