



PETRO-CANADA LUBRICANTS

GUIDE TO GREASES

AN HF SINCLAIR BRAND

	PETRO-CANADA LUBRICANTS GREASE PRODUCT	GREASE THICKENER	COLOR	NLGI GRADE	BASE OIL VISCOSITY (cSt)	4 BALL EP (KG)	WATER WASH OUT (%)	PERFORMANCE SPEC / OEM APPROVAL	MIN. OP. TEMP. °C / °F	MAX. OP. TEMP. °C / °F	APPLICABLE INDUSTRY SEGMENTS										SUGGESTED APPLICATIONS		
											FLEET	GEN. MAN.	MINING	FORESTRY	CONSTRUCTION	STEEL MILL	DRILLING	AGRICULTURE	POWER GEN.	AUTOMOTIVE			
PRECISION™ Synthetic Lithium Complex	PRECISION Synthetic EP00	Lithium Complex	●	00	460	315	27.8		-40	-40	170	338	x	x								Truck / trailer wheel-end bearings, slow-speed leaky gearboxes	
	PRECISION Synthetic		●	1	130	315	8.0	GC-LB	-40	-40	170	338	x	x	x	x	x					Centralized systems on HD mining equipment, high-performance wheel bearings, pumpjacks, low temp/viscosity	
	PRECISION Synthetic 220		●	2	220	315	8.0	GC-LB	-35	-31	170	338	x	x	x	x	x					Centralized systems on HD mining and forestry equipment, high-performance wheel bearings, pumpjacks, higher temp/viscosity	
	PRECISION Synthetic MOLY		●	1	130	400	9.8			-40	-40	170	338			x	x	x					Formulated for shock-loaded mobile equipment in mining, forestry and construction applications
	PRECISION Synthetic Heavy 460		●	1.5	460	315	5.7			-30	-22	170	338		x		x						Paper machine bearings, heavily loaded, slow-speed bearings
PRECISION™ Multi-purpose Lithium and Lithium Complex	PRECISION Synthetic EMB	Lithium	●	2	114				-40	-40	170	338	x	x	x	x	x	x	x	x	x	Electric motor bearings, high-speed antifriction bearings, fans, generators, non-EP product	
	PRECISION XL EP000		●	000	325	250			-25	-13	100	212			x	x	x					Low-speed, leaky gearboxes, chain cases, bearings in centralized grease systems	
	PRECISION XL EP00		●	00	117	250			-35	-31	100	212	x									Centralized, on-board, truck chassis lubrication systems, gear drive lubricant for high-visc., low-temp mobility	
PRECISION™ Lithium Moly	PRECISION XL EP1	Lithium Complex	●	1	220	315	1.3	GC-LB	-25	-13	160	320	x	x	x	x	x			x		Heavy-duty and general-purpose bearings, low and high speed, wheel bearings, chassis points, steering linkages. Use EP1 for centralized lubrication systems serving both heavy-duty and general-purpose bearings and for colder temperatures.	
	PRECISION XL EP2		●	2	220	315	3.8	GC-LB	-20	-4	160	320	x	x	x	x	x			x		Heavy-duty and general-purpose bearings, low and high speed, wheel bearings, chassis points, steering linkages. Use EP1 for centralized lubrication systems serving both heavy-duty and general-purpose bearings and for colder temperatures.	
PRECISION™ Lithium General Purpose	PRECISION XL 3 MOLY EP1	Lithium	●	1	220	620	4.3	Bucyrus Int. SD 4711, 3% Moly	-25	-13	135	275				x	x	x					
	PRECISION XL 3 MOLY EP2		●	2	460	500	3.0	Bucyrus Int. SD 4711, 3% Moly	-15	5	135	275				x	x	x					Heavy-duty mining and construction applications including ball mills, conveyor and crusher bearings, off-highway operations
	PRECISION XL 3 MOLY Arctic		●	1	38	315	12.5	3% Moly	-45	-49	135	275				x	x	x					
	PRECISION XL 5 MOLY EP0		●	0	133	500		Bucyrus Int. SD 4711, 5% Moly	-50	-58	120	248				x	x	x					
	PRECISION XL 5 MOLY EP1		●	1	160	620	6.4	5% Moly	-30	-22	135	275			x	x	x	x					Designed for protection against vibration and shock loading, suitable for the lubrication requirements of Caterpillar lubricant specifications for 5130 (7TJ & 5ZL), 5230 (7LL) mining excavators and 994 (9YF) wheel loaders
PRECISION™ Rail Curve Grease	PRECISION XL 5 MOLY EP2	Lithium	●	2	204	620	3.5	5% Moly	-25	-13	135	275			x	x	x	x					Centralized greasing systems, heavily loaded conveyor bearings, mobile equipment, high-speed industrial bearings
	PRECISION GP EP1		●	1	160	250	6.0		-30	-22	135	275	x	x	x	x	x					Low to moderate speed bearings at moderate temperatures	
PEERLESS™ Calcium Sulfonate Greases	PRECISION GP EP2	Polyurea	●	2	160	250	2.8	LB	-25	-13	135	275	x	x	x	x	x					Track-side mechanical lubrication systems (Portec & Lincoln), on-board lubrication systems (Clicomatic), switches, switch plates, fish plates, joint bars, and other railway applications where graphite greases are recommended	
	PRECISION XL Rail Curve		●	1	24	400	2.8		-50	-58	120	248				x							
	PEERLESS Poly EMB		●	2	100			GE D6A2C23, ASTM D3336 >750 hrs	-25	-13	163	325	x	x	x	x	x	x	x	x	x	x	High-temp, long-life electric motor bearings, non-EP product, high-speed bearings
	PEERLESS LLG		●	2	100	500	1.5	GC-LB & HPM	-20	-4	200	392	x	x		x							High-temp, long-life applications. Wheel bearings and automotive chassis, CV joints, ovens and kilns
	PEERLESS OGO		●	0	38	315			-35	-31	163	325		x		x							Central lubricating systems, low-temp applications, wet conditions
	PEERLESS OG1		●	1	53	400	2.8	GC-LB	-30	-22	163	325	x	x									Central lubricating systems, automotive chassis, low-temp applications, wet conditions
	PEERLESS OG2		●	2	73	400	2.2	GC-LB	-25	-13	163	325		x	x	x	x						Wheel bearings, automotive chassis, forklift mast slides, power shovel bucket pins, mining scoop trams, rock crushers, farming equipment, pulp press roller bearings, wet conditions
	PEERLESS OG2 Red		●	2	73	500	2.8	GC-LB & HPM	-25	-13	163	325		x	x	x	x						Wheel bearings, automotive chassis, forklift mast slides, power shovel bucket pins, mining scoop trams, rock crushers, farming equipment, pulp press roller bearings, wet conditions
	PEERLESS OG Plus		●	2.5	78	500	0.1			-20	-4	163	325				x						Wet bearings for paper mills, pulp press roller bearings
	PEERLESS SVG 102		●	1	80	620	1.5			-35	-31	163	325		x								Protection of valves against corrosion and deleterious effects of hydrogen sulfide, sour gas distribution, LPG and water injection systems
PEERLESS™ Multi-purpose Aluminum Complex	PEERLESS 3 MOLY 322	Calcium Sulfonate Complex	●	2	320	620	1.0		-15	5	170	338				x	x	x				Off-highway heavy-duty chassis, construction and mining equipment and industrial heavily loaded and low-speed industrial bearings	
	PEERLESS XCG-FLEX		●	1	329	500	1.5	AGMA CG-1 & CG-2	-20	-4	163	325			x	x						High-speed flexible couplings where severe centrifugal forces are generated, industrial couplings of the gear and flexible steel type	
	VULTREX MPG EP1		●	1	473	400	8.6	CAT SD4711, P&H 472	-25	-13	160	320	x	x	x	x	x			x		Off-highway vehicle chassis, wheel bearings. Ball mill conveyor and crusher bearings. Low speed gear couplings. Slab caster bearings. Designed for pumpability and centralized lubrication systems	
	VULTREX MPG Synthetic Arctic		●	0	151	400	10.8	CAT SD4711, P&H 472	-40	-40	120	248				x	x	x			x		Cold weather usage for forestry and logging shovels, draglines, excavators, blasthole drills and tracked equipment, forestry and logging equipment
VULTREX™ Drilling	VULTREX G-124	Aluminum Complex	●	2	220	315	3.5		-20	-4	160	320	x		x	x	x					Heavy-duty truck components, wheel bearings, bushings, kingpins, chassis	
	VULTREX Rock Drill EP000		Lithium	●	000	129	200		Ingersoll-Rand, Joy and Parts Headquarters	-20	-4	100	212				x					Air-operated rock drills and similar mining equipment	
	VULTREX Drill Rod Heavy		Barium Complex	●	3	163	315			-12	10	135	275							x			Recommended for use on diamond drill rods to reduce friction between rods and rock strata
	VULTREX Synthetic All Season 680		Aluminum Complex	●	0/00	814	800		CAT SD 4713, P&H 464 OGL, Komatsu Slew Ring Gear	-40	-40	25	77										All-season performance to lubricate gears, open gears, bearings, rollers and sliding surfaces on large mining shovels
VULTREX Synthetic 2200	●	0		2181	800		CAT SD 4713, P&H 464 OGL Komatsu Slew Ring Gear	-15	5	40	104										Moderate-temperature performance to lubricate gears, open gears, bearings, rollers and sliding surfaces on large mining shovels		
VULTREX Heavy 6200	●	0		6489	800		CAT SD 4713, P&H 464 OGL	-5	23	60	140										Electric mining shovel hoist gear lubrication, high-temp lubrication for sliding surfaces on large mining shovels		
VULTREX Gear Shield® NC	●			4765	400		Foster Wheeler, Falk, Metso, FLS, Outotec									x		x				Open gear applications, mill gears, ball mills, rod and sag mills, kilns, dryers	