PHILLIPS 66 LUBRICANTS

Megaplex® XD5

Construction and Off-Road Equipment

Extreme Pressure

Lithium Complex Grease

5% Moly

Phillips 66® Megaplex XD5 is a high performance, multipurpose, extreme pressure (EP), lithium complex grease developed to satisfy the severe lubrication requirements of mining and off-road equipment manufactured by Caterpillar, Terex, Komatsu Dresser, Le Tourneau, P&H and others. It is particularly recommended for use in AC and DC electric drive haul trucks, cranes, scrapers, shovels and drag lines operating in severe service under heavy or shock loads.

Megaplex XD5 is manufactured with high quality, high viscosity base oils, a special polymer and a lithium complex soap thickener. It is fortified with EP, rust and antiwear additives, 5% molybdenum disulfide (moly), a tackifier, and oxidation inhibitors. It provides excellent wear and corrosion protection as well as resistance to water washout for equipment subject to heavy or shock loads or operating under wet conditions and/or high temperatures.

Megaplex XD5 Grade No. 0 is formulated with lower viscosity base oils for better pumpability at low ambient temperatures.

Applications

- Chassis parts and wheel bearings on mining and other off-highway equipment
- Hydraulic excavator mining shovels, such as Caterpillar 5100 & 5200 series
- Mine haul trucks
- Heavily loaded plain and rolling element bearings in industrial and mobile equipment where the manufacturer specifies a high temperature, EP grease with 5% moly

Features/Benefits

- High dropping point
- High load carrying capacity
- Excellent wear protection
- Contains 5% moly for extra protection against galling and wear under shock loads
- Excellent resistance to water washout
- Excellent resistance to separation
- Protects against rust and corrosion

KEEPING THE WORLD RUNNING SMOOTHLY

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Typical Properties				
NLGI Grade		**0**	**1**	**2**
Thickener Type		Lithium Complex	Lithium Complex	Lithium Complex
Color		Gray	Gray	Gray
Texture		Tacky	Tacky	Tacky
Density, lbs/gal		7.85	7.90	7.90
Molybdenum Disulfide, wt %		5	5	5
Dropping Point, °C (°F)	ASTM D2265	260 (500)	260 (500)	260 (500)
Viscosity, Kinematic	ASTM D445			
Viscosity @ 40°C, cSt		228	342	460
Viscosity @ 100°C, cSt		16.2	25.7	34
Penetration, Worked (60 strokes)	ASTM D217	355-385	310-340	265-295
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	5 (34.5)	5 (34.5)	5 (34.5)
Four-Ball Wear Scar, mm	ASTM D2266	0.44	0.42	0.38
Four-Ball EP, Weld Load, Kgf	ASTM D2596	400	500	500
Timken OK Load, lbs	ASTM D2509	55	55	55
Corrosion Prevention	ASTM D1743	Pass	Pass	Pass
Copper Corrosion	ASTM D4048	1b	1b	1b

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via http://www.phillips66.com/SDS.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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