PHILLIPS 66 LUBRICANTS

Megaplex® XD3

Phillips 66® Megaplex XD3 is a high performance, multipurpose, extreme pressure (EP) lithium complex grease developed to satisfy the severe lubrication requirements of construction and off road equipment manufactured by Caterpillar, Komatsu Dresser, Case New Holland, John Deere and others. It is particularly recommended for use in off-highway trucks and heavy equipment, such as excavators, bulldozers, motor graders and wheel loaders operating under heavy or shock loads.

Megaplex XD3 is manufactured with high quality, high viscosity base oils, a special polymer and a lithium complex soap thickener. It is fortified with extreme pressure, rust and antiwear additives, 3% 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 load, wet conditions and/or high temperatures.

Applications

- Chassis parts and wheel bearings of construction, mining and other heavy mobile equipment
- Universal joints, constant-velocity joints, brake self adjusting screws and clutch release bearings on off-highway trucks and other heavy equipment
- Tractor-trailer fifth wheels
- Heavily loaded plain and rolling element bearings in industrial and mobile equipment where the manufacturer specifies a high temperature, extreme pressure grease with 3% moly

Features/Benefits

- High dropping point (>500°F)
- High load carrying capacity
- Excellent wear protection
- Contains 3% moly for extra protection against galling and wear under shock loads
- Outstanding resistance to water washout
- Excellent resistance to oil separation
- Protects against rust and corrosion

Construction and Off-Road Equipment

Extreme Pressure

Lithium Complex Grease

3% Moly

KEEPING THE WORLD RUNNING SMOOTHLY

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Megaplex® XD3

Typical Properties			
NLGI Grade		**1**	**2**
Thickener Type		Lithium Complex	Lithium Complex
Color		Gray	Gray
Texture		Tacky	Tacky
Density, lbs/gal		7.90	7.91
Molybdenum Disulfide, wt %		3	3
Dropping Point, °C (°F)	ASTM D2265	>260 (>500)	>260 (>500)
Viscosity, Kinematic	ASTM D445		
Viscosity @ 40°C, cSt		459	459
Viscosity @ 100°C, cSt		27.3	27.3
Penetration, Worked (60 strokes)	ASTM D217	310-340	265-295
Oxidation Stability, 100 Hours, psi (kPa)	ASTM D942	3 (20.7)	3 (20.7)
Four-Ball Wear Scar, mm	ASTM D2266	0.48	0.48
Four-Ball EP, Weld Load, Kgf	ASTM D2596	620	620
Timken OK Load, lbs	ASTM D2509	55	55
Corrosion Prevention	ASTM D1743	Pass	Pass
Copper Corrosion	ASTM D4048	1b	1b
Water Wash-out, wt%	ASTM D1264	2	<5

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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