

## CALIBER® 460 M EXTREME-SERVICE GREASE with MOLY

Whitmore® Caliber® 460 M is a robust extreme pressure (EP) lithium complex grease containing molybdenum disulfide. It is designed primarily for earthmoving equipment and other heavy-duty rolling stock applications.

Whitmore has combined high oil viscosity with a synergistic blend of three solid lubricants to form a grease that can withstand high load and prevent scuffing or pitting of contact surfaces. Whitmore Caliber 460 M can be used with confidence no matter how rough the terrain.

The lithium complex thickener assures outstanding stability and water resistance.

Increased re-lubrication frequency will be necessary at sustained temperatures above 185°F (85°C).

Whitmore Caliber 460 M was certified by Bucyrus International (Caterpillar) for use on heavy duty ball, roller and plain bearings.

### BENEFITS:

- **WATER-RESISTANT** - excellent resistance to washing out of bearings.
- **EXTREME PRESSURE** - protects against shock loads and scuffing of metal surfaces. Reduces parts replacement and downtime.
- **SEALS OUT DIRT AND CONTAMINANTS** - forms a protective barrier to reduce wear and extend lubricant life.
- **VERSATILE FORMULATION** - ideal for a wide range of equipment, including process machinery and industrial applications.

### APPLICATIONS:

Whitmore Caliber 460 M is designed to lubricate the components of earthmoving equipment and rolling stock. It is recommended for wheel bearings, slewing bearings, vehicle chassis points and U-joints, as well as pivot points and bucket pins on earthmoving equipment. Whitmore Caliber 460 M has proven successful in lubricating Mill Stand bearings and Continuous Caster bearings in Steel Mills.

Whitmore Caliber 460 M EP 2 has been approved for use in central lubrication systems and for manual lubrication of Komatsu's PC3000, PC4000, PC5500, and PC8000 series excavators.

ASTM #		TYPICAL CHARACTERISTICS
	<b>Grade</b>	EP 2
<b>D-217</b>	<b>Cone Penetration (Worked)</b>	265-295
<b>D-2265</b>	<b>Dropping Point, °F (°C)</b>	450 (232)
<b>D-445</b>	<b>Kinematic Viscosity (Base Oil + Polymer)</b>	
	cSt @ 40°C	480
	cSt @ 100°C	35.4
<b>Gardner Method</b>	<b>Density, lb/gal @ 60°F (15.5°C)</b>	7.57
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	0.9076
<b>D-2596</b>	<b>Four Ball EP</b>	
	Weld Point, kg (minimum)	620
<b>D-2266</b>	<b>Four Ball Wear, Scar Width, mm</b>	0.57
<b>D-4049</b>	<b>Water Spray-Off, % Loss</b>	10
<b>D-1264</b>	<b>Water Washout, % Loss @ 100°F (38°C)</b>	<2
<b>D-1743</b>	<b>Rust Test</b>	Pass
<b>D-4048 (Modified)</b>	<b>Copper Strip Corrosion for Greases</b>	
	212°F (100°C) @ 3 hrs	1B
	<b>Usable Temperature Range, °F (°C)</b>	23 (-5) to 340 (170)
	<b>Thickener</b>	Lithium Complex

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

### PACKAGING

Plastic Totes (Non-returnable)	Drums	Kegs	Pails	Cartridges 50 Count Case
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