

CALIBER™ 460 M

EXTREME PRESSURE GREASE with MoS₂

Whitmore's 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. 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).

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

Not listed below: Caliber™ 460 is also available in NLGI grade 0 with ISO 150 base oil, with a usable temperature range of -15°F (-26°C) to 50°F (10°C). The product name is Caliber™ 460 EP 0-150

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's 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. Caliber™ 460 M will provide extended service intervals and reduced wear to draglines, shovels, excavators, trucks, conveyors, and other rolling stock, as well as in-plant applications.

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 #	Grade	TYPICAL CHARACTERISTICS				
		EP 0-460	EP 1-220	EP 1	EP 1.5	EP 2
D-217	Cone Penetration (Worked)	355-385	310-340	310-340	290-310	265-295
D-2265	Dropping Point, °F (°C)	450 (232)	475 (246)	475 (246)	>500 (260)	>500 (260)
D-445	Kinematic Viscosity (Base Oil + Polymer) cSt @ 40°C cSt @ 100°C	460	220	480	480	480
		33.1	21.0	35.4	35.4	35.4
Gardner Method	Density, lb/gal @ 60°F (15.5°C)	7.57	7.56	7.56	7.57	7.57
	Specific Gravity, g/cc @ 60°F (15.5°C)	0.9076	0.9060	0.9060	0.9076	0.9076
D-2509	Timken OK Load, lbs, minimum	65	65	65	65	65
D-2596	Four Ball EP					
	Weld Point, kg (minimum)	620	620	620	620	800
	Load Wear Index (minimum)	65	65	65	65	65
D-2266	Four Ball Wear, Scar Width, mm	0.57	0.57	0.57	0.57	0.57
D-4049	Water Spray-Off, % Loss	NA	NA	NA	12	10
D-1264	Water Washout, % Loss @ 100°F (38°C)	NA	<5	<5	<4	<2
D-1743	Rust Test	Pass	Pass	Pass	Pass	Pass
D-4048 (Modified)	Copper Strip Corrosion for Greases 212°F (100°C) @ 3 hrs	1B	1B	1B	1B	1B
	US Steel Mobility Test g/sec @ 0°F (-18°C)	0.10	0.15	0.15	-	0.05
	Usable Temperature Range, °F (°C)	-5 (-20) to 50 (10)	-5 (-20) to 80 (27)	10 (-12) to 90 (32)	19 (-7) to 200 (95)	23 (-5) to 340 (170)

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

PACKAGING

Shuttle Tanks	Nonreturnable Totes	Drums	Pails
---------------	---------------------	-------	-------

For warranty information, scan the QR code.
 You can also email us at sales@whitmores.com
 Or write to the Sales Department at the address below.

930 Whitmore Drive • Rockwall, Texas 75087 • USA • (972) 771-1000 • 800-699-6318
 An ISO 9001 and ISO 14001 registered company • www.whitmores.com

