Mobil™

Performance by ExxonMobil

Mobil Dynagear™ Series

Multipurpose grease for open gears

Energy lives here™

Key benefits

Strong stay-in-place adherence provides long-lasting protection

Asphalt-free formulation helps promote system cleanliness, limiting the need for maintenance

High lubricant flash points can help enhance safety and minimize waste

0 solvents

Solvent-free technology helps limit runoff, minimizing waste disposal costs.

Mobil Dynagear™ Series greases are formulated for use in heavily loaded open-gear sets commonly found in the mining industry.

Free of carbon black, they help provide:

- **Exceptional extreme pressure/antiwear performance to help minimize maintenance and equipment damage**
- **Excellent low-temperature pumpability and startup performance**

Applications

- **Mobil Dynagear Series:** Recommended for use in mining, grinding, mill and other industrial applications where grease is dispensed through central grease systems.
- **Mobil Dynagear Series open gear lubricants:** Recommended with shovel dipper sticks and racks, swing gears (circle), propel system bushings, crowd gears, sheave bearings and undercarriage lubrication points.
- **Mobil Dynagear™ 800 Extra and Mobil Dynagear™ 600 SL:** Recommended as all-season, multipurpose greases and as low-temperature, open-gear lubricants.
- **Mobil Dynagear™ 2000:** For applications operating at higher ambient temperatures and requiring greater film thickness.
- **Mobil Dynagear 800 Extra:** Meets requirements of P&H SHOVELS 464 OGL for lubrication of open gears.
- **Mobil Dynagear™ 4000:** Recommended for lubrication of hoist gear on Caterpillar Mining Electric Shovel Hoist Drum Gear sets and in applications where an extra-heavy open-gear lubricant is desired.
- **Mobil Dynagear 800 Extra:** For use as an all-season, multipurpose grease for onboard systems on heavy-duty equipment where NLGI 00 grade greases are recommended.

Mobil Dynagear™ Series

Typical properties*

	Dynagear 800 Extra	Dynagear 600 SL	Dynagear 2000	Dynagear 4000
Operating Temperature, °C, Multi-purpose grease	-40 to +40	-37 to +50	-	-
Operating Temperature, °C, OGL, except hoist gear*	-40 to +10	-37 to +10	-20 to +45	-10 to 55
Operating Temperature, °C, Hoist Drum Gear*	-	-	-	-10 to 35
Min. Dispensing Temp., °C	-45	-40	-20	-10
Worked Penetration mm/10 @ 25°C	400	335	380	390
Dropping Pt., °C	175	198	193	177
Flash Point, Base Fluids	158	204	243	268
Rust Protection	Pass	Pass	Pass	Pass
Copper Strip Corrosion, 24 hours @100°C	1	1	1	1
Oil Phase Viscosity				
cSt @ 40°C	680	620	2000	4000
cSt @ 100°C	60	60	120	-
Molybdenum Disulfide, Wt. %,	>2.0	>2.0	>2.0	>2.0
Timken OK Load, kg	25	25	25	25
4 Ball EP, kgf				
Weld	800	800	800	800
LWI	145	145	145	145
4 Ball Wear Scar Diameter, mm	0.55	0.6	0.5	0.42
Timken Retention (30 lbs./30 min.)	Pass	Pass	Pass	Pass
Lincoln Ventmeter				
psi @ -40°C	200			
psi @ -35°C	-	183	-	-
psi @ -30°C	-	0	-	-
psi @ -20°C	-	-	117	-
psi @ -6°C	-	-	-	300
Apparent Viscosity, 20 sec.-1		@-30°C 10,000	@0°C 2000	@0°C 2500
shear, P	@-40°C 10,000	@-40°C 38,000	@-15°C 9000	@-10°C 9200

Specifications and approvals

P&H SHOVELS 464 OGL

Industrial Lubricants

Advancing Productivity™

Safety

By helping enhance equipment life and maintain system cleanliness, Mobil Dynagear™ Series greases can minimize maintenance and its associated safety risks.

Environmental Care†

The solvent-free formulation helps minimize the impact of emissions associated with hydrocarbon and chlorinated solvents. Excellent wear protection can help limit environmental impact by minimizing disposal of worn equipment and waste grease.

Productivity

Helps maximize equipment availability for peak production by protecting mating surfaces against damaging wear in contact zones, which can help enhance component life.

*Typical properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

†Visit mobilindustrial.com to learn how certain Mobil-branded lubricants may provide benefits to help minimize environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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