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U.S. Distributor of



MOV Extra Valve Grease

Product Description:

MOV Extra uses a state of the art thickener, to give outstanding performance. It was specifically formulated to offer solutions to the past problems associated with the lubrication of manual and motorized operators, and to provide a longer service life. This grease is a good solution for the recent cancellation of the Nebula EP grease that had been used in valve operators. It also has a lower viscosity baseoil for much better mobility at lower temperatures.

MOV Extra meets the Limatorque requirements and is one of few greases shown to be compatible with the calcium complex thickener in Nebula EP. It may be used without stripping down the operators or rigorously cleaning the valve stems of the old grease. However, the more of the obsolete grease that is removed the better the performance of MOV Extra.

MOV Extra provides above average corrosion protection, good extreme pressure and anti-wear properties.

MOV Extra is currently available in NLGI Grades "0", "1" and "2" and is now being used in fossil fuel power generation stations. Consideration is being given to Grades "00". The Grade "00" for extremely low temperatures and the Grade "2" as multipurpose power station grease.

For safety related equipment at Nuclear Power Plants, review MOV LL (Long Life) as it is the only grease approved by Limatorque, EPRI and MUG

ADVANTAGES OF MOV EXTRA GREASES

Performance:

- Very good low temperature mobility and low bearing torque.

Stability:

- More resistance to age hardening than calcium complex greases.
- Excellent resistance to changes in consistency.
- Excellent corrosion protecting capabilities.
- Excellent resistance to oil separation and water washout.
- Excellent results in the roll stability test.

Safety & Environmental Benefits:

- Contains no artificial colouring agents.
- Contains no added lead, or chlorinated substances.
- Manufactured in a "Responsible Care" member facility, under ISO9002 certification.

Compatibility:

- Generally compatible with both calcium complex and lithium complex based greases.

Multipurpose:

- MOV greases can be considered a multipurpose grease. As such, they can also be effectively utilized in other applications requiring such greases.

Quality Benefits:

- Based on proven technology that has been in use for over 10 years.
- Manufactured in an ISO 9002 registered North American Plant.
- Produced by one of North America's largest grease manufacturers.



MOV EXTRA GREASE

General Properties

Thickener	calcium sulphonate		
NLGI Grade	0	1	2
Colour	tan	tan	brown
Texture	smooth		
Penetration: mm/10 worked at 25°C, ASTM D-217	375	325	280
Dropping Point: °C, ASTM D-2265	260	300	300

Extreme Pressure/Wear Performance

Timken OK Load: kg, ASTM D-2509	22.7	25	27
4 Ball Extreme Pressure: ASTM D-2596: load wear index, kg	50	55	62
weld point, kg	400	400	500
4 Ball Wear: scar diameter (mm), ASTM D-2266	0.48	0.38	0.38

Leakage/Separation Characteristics

Storage Oil Separation: mass %, ASTM D1742	1.1	0.2	0.2
High Temperature Oil Separation, mass % @ 100°C, ASTM D6184	7.7	-	-
Wheel Bearing Leakage, grams, ASTM D-4290	-	6.5	4.0
Water Washout, % loss @ 79°C, ASTM D-1264	9.0	3.5	3.5

Stability

Worked Stability: ASTM D-217, % change after 100,000 strokes	4.0	8.4	2.3
% change, 10,000 strokes & 50/50 water mix	8.4	8.2	7.9
Roll Stability: % change after 2 hours at 20°C, ASTM D-1831	4.2	3.8	3.7

Corrosion Resistance

Rust Test Rating: ASTM D-1743	pass	pass	pass
Salt Fog Rust Protection: hours, ASTM B-117, 1 mil d.f.t.	>250	>300	>300

Oxidation Resistance

Bearing Life: hours, ASTM D-3527	-	80	100
Bomb Oxidation: psi drop after 1,000 hours, ASTM D-942	9.0	9.0	9.0

Low Temperature Properties

Torque: ASTM D-4693 at -40°C, N•m	6.0	2.5	12
ASTM D-1478 at -40°C, g•cm, start	2425	-	-
	60 minutes		
	351	-	-
USX Mobility: at 150 psi, g/minute @	287	-	11.5
0° F (-18°C)	139	-	3.6
-10° F (-23°C)	68.5	-	0.6
-20° F (-29°C)	16.5	-	0.2
-30° F (-34°C)			

Packaging:

MOV Extra Greases are available in 17kg pails, 55kg kegs and 180 kg drums