SLS BI OGL Extra Heavy and BI OGL Heavy

Description

The SLS BI OGL Extra Heavy and BI OGL Heavy were specifically designed for the lubrication of open gear systems found on heavy duty equipment in mining such as large draglines and shovels. These grades were developed for service during the higher ambient temperatures found near the equator and/or the summer months anywhere in the world.

The SLS BI OGL Extra Heavy and BI Heavy provide maximum protection to open gears, racks and pinions, and slides on large draglines and shovels. The maximum protection is achieved by formulating with a combination of high viscosity oils, thermal plasticizing hydrocarbon resins, and polymers that have been specifically selected to provide the formation of a tenacious lubricant film that adheres to the mating surfaces. The lubricant does not squeeze out, but the film is soft enough and stays pliable over time, minimizing lubricant build-up in the roots of the gear teeth. This combination of high viscosity oils, resins, and polymers provide excellent water resistance.

The unique high viscosity oil blend is fortified with about 15% high purity lubricating solids, including a minimum 2% Moly, and a combination of the latest in Extreme Pressure (EP) and Anti-Wear (AW) additives. The lubricating solids work synergistically with the EP and AW additives to reduce friction which results in the reduction of contact temperatures, while providing excellent anti-weld and anti-scuffing protection under extreme pressure, shock loading, and slow speeds. The combination of the unique oils, resins, polymers, lubricating solids, and the specially selected EP and AW additives generates a tough and durable lubricant film with excellent adherence that separates the mating surfaces, which greatly reduces metal to metal contact and wear. The generated lubricating film provides excellent water resistance and minimizes peeling off during dry and dusty conditions.

The SLS BI OGL Extra Heavy and BI Heavy are formulated with the most advanced rust and corrosion inhibitors to protect all of the components against any harsh environmental or process contaminants.

When applied properly, SLS BI OGL Extra Heavy and BI Heavy significantly reduce lubricant consumption when compared to conventional lubricants.

The SLS BI OGL Extra Heavy and BI Heavy are formulated to minimize potential environmental pollutants (no Heavy Metals, no chlorinated additives, no solvents).

Features & Benefits

1- Formulated to address environmental concerns – in addition to reducing consumption, the BI OGL Extra Heavy and BI Heavy contain no chlorinated components, and they are free of solvents, lead, antimony and barium.

2- Formulated to form a tough durable film which separates the mating surfaces, reducing friction and wear, and providing maximum protection to the components it lubricates, which leads to reduction in consumption and the mining equipment lasting longer.
3- Formulated to provide excellent water resistance (rain or sleet) and resists peeling off in dry and dusty conditions which leads to less contamination into the environment.
4- The film does not build-up in the roots of the gears which leads to less down time.
5- Formulated to provide excellent resistant to rust and corrosion which leads to extended component life.

Applications:

SLS BI OGL Extra Heavy and BI Heavy can be applied to heavily loaded open gears such as those found in mining equipment (draglines, shovels) and in industrial equipment (kilns, grinding mills, ship loaders, crane slew ring and pinion).

SLS BI OGL Extra Heavy and BI OGL Heavy Product Typical Data

Test	Method	BI OGL Extra Heavy	BI OGL Heavy
NLGI Grade	**NLGI**	#1	#0
Penetration @ 77F W60	**ASTM D-217**	325	370
Flash Point (deg F)	**ASTM D-92**		
-Product		>400F	>400F
-Base		>400F	>400F
Rust Protection	**ASTM D-1743**	PASS (3X)	PASS (3X)
Copper Corrosion	**ASTM D-4048**	1b	1b
4-ball EP, weld point, kg.	**ASTM D-2596**	800+	800+
4-ball EP, LWI	**ASTM D-2596**	155	155
4-ball wear, scar dia. mm	**ASTM D-2266**	0.65	0.65
Base Oil Viscosities (without polymer)			
-cSt @ 100 C	**ASTM D-445**	188	188
-cSt @ 40 C	**ASTM D-445**	5,762	5,762
-cSt @ 40 C (with polymer)	**ASTM D-445**	7,500	7,500
-VI		122	122
Minimum Ambient Temperature (°F)		60	40
MoS_2 content; %wt. min		2.0	2.0