

5180 PYROSHIELD®

EATON CORPORATION, Belmond, IA

700 Ton Maxi-Press • SIC 3592 Carburetors, Pistons, Rings, Valves

Because of the superb adhesiveness of LE's 5180, lubricant consumption has been reduced.

CUSTOMER PROFILE

The Eaton Corporation, located in Belmond, IA, is the manufacturer of a wide variety of engine components. They have been an LE customer over 10 years.

APPLICATION

A wide variety of equipment is used to manufacture the various and intricate engine components.

AREA OF CONCERN

One area of concern was in the 700 ton Maxi-Press. This unit has been in operation for over 20 years and is used to forge engine valves. The equipment operates 16 hours a day, five days a week. The normal operating ambient temperature is between 70°F. (21° C.) and 80°F. (27°C.) year-round. The operating speed of the Maxi-Press is approximately 30 strokes per minute, representing an estimated load factor of between 90,000 and 100,000 lbs. The large bull and pinion gear assembly which has been on the equipment approximately 8-1/2 years, requires considerable attention to lubrication. The life expectancy of the assembly is approximately 10 years. While using a commercial grade open gear lubricant, the lubrication operation required two people. One operator would operate the press motor and cycle the machine,

while the other operator would pour the commercial grade open gear lubricants on the bull gear. This process was very messy and the motor had to be reversed so the commercial grade open gear lubricant would contact the pinion gear and distribute itself. Then when the unit was started up the lubricant would sling off and create a hazard.

LE SOLUTION

It was recommended that Eaton Corporation convert to LE's 5180 PYROSHIELD NLGI Grade 0. This revolutionary lubricant is ideal for open gears which operate in the most severe service conditions. LE's 5180 provides extreme pressure protection and is ideal for open gears in continuous operation.

CUSTOMER COST SAVINGS

Because of the superb adhesiveness of LE's 5180, lubricant consumption has been reduced. In addition, because of the ease of application, it no longer requires two operators to apply the lubricant. One operator states, "This lubricant is very good; hardly any sling-off has been observed. It is real easy to use and it sticks great." Another observation was that the noise level lowered noticeably after converting to LE's 5180, and the gear assemblies are operating smoother.

We wish to thank the personnel from Eaton Corporation and the local LE Representative for providing information to prepare this report.

Based on actual user experience. Individual results may vary. Product used not intended to supersede manufacturer's specifications.

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300 Bailey Ave · Fort Worth, TX · Phone: 800-537-7683 817-916-3200
FAX: 800-228-1143 817-820-0027 · www.le-inc.com

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