

SUCCESS WITH MOLUB-ALLOY OG 936 SF EXTENDED DRAGLINE COMPONENT LIFE

PHOSPHATE MINING (USA)

DRAGLINE HOUSE ROLLERS AND RAILS

Castrol Molub-Alloy® OG 936 SF Heavy*

SAVINGS: 43% life increase



THE SITUATION

A major coal mining company was experiencing expedited wear of dragline components such as house rollers and upper & lower rails on their Bucyrus-Erie 1570-W dragline.

Replacement of these components cost over \$20,000 per hour in downtime.

The customer challenged Castrol to reduce component wear and downtime.

BEFORE

- Less than 70,000 hours life on the house rollers and upper & lower rails.
- Enormous amount of labor and downtime for replacement.

AFTER

- **100,000+ operating hours** with Molub-Alloy OG 936 SF Heavy.
- **Component life increase: 43%**
- Increased machine availability
- Reduced parts cost
- Reduced labor costs
- Safer working conditions

THE SOLUTION

- According to the OEM, Bucyrus-Erie 1570-W Dragline house rollers and upper & lower rails should serve for at least 70,000 hours.
- Customer was looking to improve the condition of these components in order to achieve the life recommended by the OEM.
- Castrol Application Engineer thoroughly analyzed the situation to determine best recommendations.
- Castrol Molub-Alloy OG 936 SF open gear lube was recommended.

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RECOMMENDATIONS

Castrol Molub-Alloy OG 936 SF Heavy is a uniquely compounded open gear lubricant developed specifically for use on heavy duty equipment in mining and industrial service. It is additized to give maximum protection to gears and slides on large draglines and shovels, while minimizing potential pollutants to the environment (free of antimony, lead, and all other heavy metals).



Dragline house rollers and rails

CONCLUSION

Life of dragline components with Molub-Alloy OG 936 SF was increased 43% over OEM recommendation.



OTHER POTENTIAL APPLICATIONS

Mining applications for Castrol Molub-Alloy OG 936 SF open gear lubricant include all types of open gears, rails and rollers, rack and pinions, dipper sticks, and other slides on shovels and draglines

Castrol Molub-Alloy OG 936 SF may also be used for lubrication of open gears and slides, wherever a solvent-free, heavy duty lube is needed for long component life.