

# Castrol Grease Performs Well at the Caster

## Metals (USA)

### Steel Mill Caster Bearings

### Castrol Spheerol® EPLX 460-1

**ANNUAL SAVINGS: \$61,800**

#### THE SITUATION

A major steel bar mill was using low cost greases for their caster. They used large quantities to ensure proper lubrication. Two different greases were used to reduce fires, and the NLGI grade changed seasonally to ensure pumpability in cold months.

#### BEFORE

- Using two separate greases, adjusting the NLGI grade seasonally, effectively requiring four (4) different greases
- Large grease quantities in use

#### AFTER

- Reduced number of greases (from 4 to 1)
- **Lowered grease usage by 45% and total cost by 55%!**
- Improved pumpability
- Good fire control

#### THE SOLUTION

- Castrol developed Spheerol EPLX 460 grease to provide proper lubrication in areas of high temperature, heavy loads, and water wash.
- Pumpability of the grease in cold temperatures was tested in the Castrol lab and on-site by the customer.
- In service, the Spheerol EPLX did not degrade, allowing less grease to be used while still maintaining the required lubrication.
- Lower usage and excellent stability at high temperatures provides acceptable fire control.

- **Improved pumpability**
- **Excellent stability**
- **Less grease needed**
- **Consolidation of greases**



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## RECOMMENDATIONS

Castrol conducted a full suite of lab tests, choosing methods that replicated the difficult conditions of the caster including heavy loads, high temperature, and mill water contamination. Based on the excellent performance of Spheerol EPLX 460 in these tests, the customer trialed the grease in the caster.

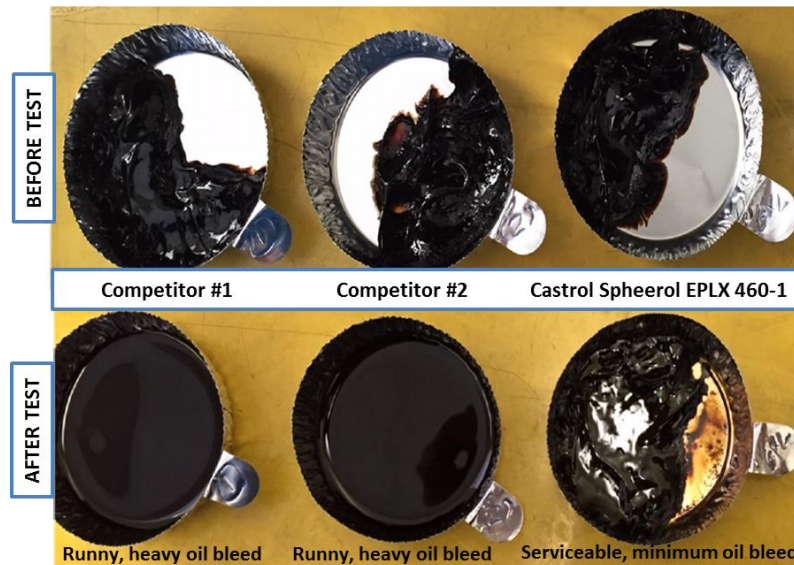
## CONCLUSION

The customer received an excellent steel mill grease at a fair price while reducing the number of greases from four to one with good pumpability, excellent stability, and fire resistance. **The resulting savings due to lower grease usage was \$61,800 per year.**



### Thermal Stability Test 400°F, 12 hours

The previous greases turned to liquid while the Castrol grease remained very serviceable.



## OTHER POTENTIAL APPLICATIONS

Castrol Spheerol EPLX 460-1 is a heavy duty grease designed to withstand harsh conditions of heavy loading and extreme temperature, while resisting even the most aggressive process waters.

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