

MicroPoly®

LUBRICANTS

**FOUNDRY
APPLICATIONS
FILLED BEARINGS**

CASE 1: Bucket elevator sand conveyor - lower boot pulley

BEARING TYPE: SealMaster SFT 35E – 2 bolt flange, 2-7/16" bore

CONDITIONS: Buried in sulfur-contaminated sand. Bearing was contained with an end cap. Temperature 110°F. Bearing life 6 months.

RESULTS: Bearing life is now 12 months and the greasing schedule has been reduced. End cap was eliminated.

CASE 2: Muller

BEARING TYPE: Single row ball bearing, 6212

CONDITIONS: Sand contamination. Speed 150 RPM. Bearing life 1 to 4 weeks.

RESULTS: Bearing life has been extended to 12 months.

CASE 3: Shotblast

BEARING TYPE: Linkbelt F3 U231N, 2-15/16" flange

CONDITIONS: Sand and steel shot fines contamination. Speed 60 RPM. Bearing life 2 months.

RESULTS: Bearing life has been extended to 11 months.

CASE 4: Mold conveyor wheel and guide bearings

BEARING TYPE: Ball bearings, 1-1/2" and 2" bore

CONDITIONS: Higher than room temperature and sand contamination caused premature and inconsistent bearing life. The bearings could not be re-lubricated, complicating the bearing life problem further, causing excessive downtime and high maintenance costs.

RESULTS: Bearing life was increased 3 to 4 fold. Based on an internal cost study, MicroPoly became the standard for these bearings.

CASE 5: Conveyor chain bearings

BEARING TYPE: Roller and ball bearings

CONDITIONS: Higher than room temperature and sand contamination caused premature and inconsistent bearing life. The bearings could not be re-lubricated, complicating the bearing life problem further, causing excessive downtime and high maintenance costs.

RESULTS: Bearing life was increased to 6-7 years, substantially improving uptime and reducing maintenance costs.



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CASE 6: Overhead conveyor

BEARING TYPE: 6" wheels

CONDITIONS: Conveyor carries parts through system with the wheels exposed to shot blast process. This causes the wheel cover to come off which allows shot material to enter and destroy the bearings. Manual lubrication was required which caused down time and additional labor costs. Liquid lubricant has caused fires periodically.

RESULTS: MicroPoly is keeping the shot material out of the bearing, even when the wheel cover comes off. The life of the wheels has increased.

