CHESTERTON
Global Solutions, Local Service.

Fan Shaft Bearings, Heat Treating Oven

Chesterton Lubricants/MRO Chemicals

Steel
Product: Chesterton 615 HTG #1
Case Study 004 LMRO

Challenge

Background

This foundry was experiencing problems with the fan bearings in their six heat treatment ovens.

- The previous grease was hardening due to high temperatures of 150-170°C (302-338°F).
- As a result, the lines are shut down for 6 days each year to replace bearings and clean out old grease.
- **Annual cost: $38,800**

Solution

Product

- Deliver **Chesterton 615 High-Temperature Grease (HTG) #1** to the bearings through a central lubrication line.
- Chesterton Technical Services recommended adjusting the central pump to re-grease the bearing with small amounts of "make-up" grease 6X per day. This approach keeps fresh grease in the bearing and purges old grease.

Results

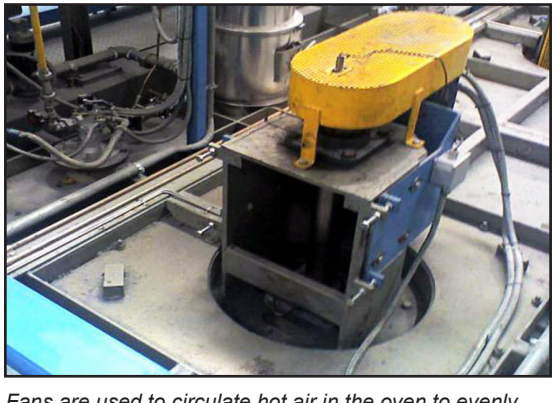
Chesterton 615 HTG #1 solution has performed flawlessly:

- No clogs in central grease lines for 2 years
- No shut downs from bearing failures
- No hardening of grease
- No replacement fan bearing in last 2 years
- No shut down to replace bearings

Previous Annual Replacement Cost:	**-$38,800**
Lubrication with 615 HTG #1:	$ 2,400
Annual Savings:	**$36,400**

$=USD

Heat treating alloys requires a controlled rate of heat-up and cool down.



Fans are used to circulate hot air in the oven to evenly heat the oven internals.

Reliability, dependability and cost-effective solutions.

A.W. Chesterton Company
860 Salem Street, Groveland, MA 01834 USA

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