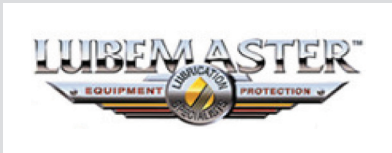


Lubemaster Case Study



Type of Business: **Steel Making HSM**
City: **Wollongong, New South Wales**
Country: **Australia**

Marketing Manager: **Chris Nixon**
Sales Rep: **Vijay Eyunni**

Case Study

PROBLEM:

Premalube Extreme Heat Shield

Poor Lubrication of Walking Beam Furnace Discharge Table Rolls The discharge table rolls are affected by extreme temperatures because of their close proximity to the discharge doors of the furnace. The furnace internal temperature is 1280°C and when the doors open to extract a slab out of the furnace, the table roll bearings and associated lubrication lines and hoses are exposed to these high temperatures. Previous grease usage for the 20 table roll bearings was 2000Kg/yr.

As well as high grease usage high maintenance costs were required to rectify blockages and change hoses every maintenance day. As a result of inadequate grease they experienced on average two table roll bearing failures per year. As they were over greasing to keep the Mill moving there was associated cleanup costs to remove the excess grease from the surrounding equipment. Regular spot fires on these table rolls were also experienced because of the excess grease.

SOLUTION:

BlueScope Steel HSM now uses Premalube Extreme Heat Shield on the Walking Beam Furnace Discharge Table Rolls. Over a 6 month period grease usage was reduced from 2000Kg/year to just 200Kg/year. Bearings were inspected each down day to ensure adequate grease.

RESULT:

No blockages have been experienced, no bearing failures have occurred, no fires have been experienced, and they have reduced cleaning costs.



HSM Walking Beam Furnace



Hot Slab on top of Discharge Table Rolls



Bearing Condition with Previous Grease



Bearing Condition with Premalube Heat Shield

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Premalube Extreme Heat Shield

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Lubemaster Case Study

Grease Type	Cost of Grease/Year	Cleaning Cost/Year	Maintenance Cost of Grease System/Year	Cost to replace Failed Table Rolls/Year	Cost of Lost Production due to Down Time/Year	Total Cost
Previous Castrol Product	2000kg = \$17 000	\$5000	\$65000	2 Failures = \$50000	\$180000	\$317 000
Premalube Extreme Heat Shield	200KG = \$10 000	\$1000	\$20000	0 Failures = \$0	\$0	\$31 000
Savings: \$317 000 - \$31 000 = \$286 000/Year						

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