



CHAIN RELIABILITY - BRICK PLANT

SUMMARY

Industry: Brick Plant

Product: Chesterton® 601

Plant: Renold Chain



PROBLEM DESCRIPTION

- Three bays with 8 x 10 metre lengths of chain totalling 240 metres were located in the unloader area. Chains were never lubricated in the past due to the belief that the lubricant would stick to the chains creating build up.
- Chains were changed out every 3 months, requiring 4 staff to work 10 -11 hours on night shift.
- Retentioning of chains was required every 3 weeks taking 2 hours by 1 person.

SOLUTION

- The chain was clearly contaminated by brick dust prior to application. After initial application of 4 litres of Chesterton® 601 across them chain, the results were almost immediate.
- The chains were cleaner and provided considerable noise reduction.
- After the first weekly inspection, it was decided to lubrication should be scheduled every second week.

COST BENEFIT ANALYSIS



Without Lubrication

- Cost of labour \$11,110
- Cost of chain \$115,200
- Total Cost \$126,310

Using Chesterton 601

- Cost of labour \$1,050
- Cost of Chesterton 601 \$2,780
- Total Cost \$3,830

Total cost saving over 12 months \$122,480

RESULTS

- Chains are now running free of contamination with considerable noise reduction.
- Amperage readings were taken by the plant electrician prior to application. After 2 weeks using Chesterton® 601 there was a reduction in amperage of 8%. It is recommended that this be an ongoing process to ensure maximum energy saving is realised.
- Cost of lost production figures are not considered as maintenance was completed after hours.



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