

# Advanced Friction Modifying Technology

## Lofrix® Application Case Study

### Barrel Dryer Gearbox – mineral processing

To protect the confidence of clients, certain information is changed or disguised.

A specialist refractory and minerals processing company utilises pan milling and grit drying operations in the conversion of raw materials.

The barrel drying process takes all crushed mineral and is consequently a vital piece of equipment in terms of finished, bagged material. There had been issues of service reliability for the gearbox driving the barrel and Lofrix® was used to address the situation.

The photograph shows the barrel drive; the chain is 50mm wide. A 17 amp supply was drawn to operate the barrel, through a gearbox operating with a rather warm casing. A 1% addition of Lofrix® was made to the gearbox oil and run for several hours. When measured again, the average current draw had reduced to 15 amps and the gearbox casing temperature had reduced noticeably,

resulting in a 12% lower power usage. This in turn facilitated a rapid payback for the Lofrix® treatment. In addition, the life of the gearbox was also extended from around 3 months to in excess of 12 months.



**Drying Barrel – on load**

(white specks in picture are fine dust caught in flash light)

*Power and energy conservation is of paramount importance to manufacturing and process industries. This simple performance enhancing treatment will return huge savings at low cost.*

***Lofrix®** has a cost to performance ratio warranting its introduction in almost all applications.*

**Lofrix Associates** provide a friction optimising service to manufacturing and process industries. Lofrix® will treat most formulated and specialist lubricants.

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