

Advanced Friction Modifying Technology

Lofrix® Application Case Study

Clay Brick Extruder Gearbox

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

Energy and environmental costs in the brick making industry are escalating hugely. An opportunity to positively affect maintenance and service costs was considered valuable by one of the, already, most efficient manufacturers. A 500hp motor driven clay extruder gearbox had been in service for several years with rebuilt intervals of approximately 7 years. During the interim the first input pinion gear is subject to replacement at 12 – 24 month intervals. Start up is helped by an air bag to cushion the otherwise full load onto clay filled screw. Gearbox oil is changed at 18-month intervals.

During the most recent gearbox rebuild, some two years ago; using approximately £40,000 worth of components, an addition of Lofrix® was made to the new oil fill. Compared with average power consumption prior to the rebuild, power consumption was measured at in excess of 5% lower. When

the oil was changed at 18 months, the magnetic plug in the gearbox was found to be free from steel or iron particles.

Both at that time and again at two years the input pinion was found to be completely free of damage, thus avoiding a costly stoppage.

All 3 gearboxes on the extruder have a 1% Lofrix® presence and very significant savings made now and in the future are of great value to productivity.



First stage clay shredder, prior to vacuum chamber and plasticising screw.

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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