


ADAPTIVE PROTECTION FOR EQUIPMENT RELIABILITY



IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.

 **TRIBOL**



**60% OF
MECHANICAL
FAILURES
ARE LUBRICANT
RELATED**

TAKE CARE OF BUSINESS WITH ADAPTIVE PROTECTION FROM CASTROL TRIBOL

In our competitive economy, it is more important than ever for manufacturing operations to keep key equipment moving and delivering value. In a single plant there can be thousands of pieces of equipment, including chains, bearings, valves, conveyors, cranes, hydraulic systems and compressors. Every moving part needs to work effectively, without unscheduled stoppages, to ensure continued productivity. However, mechanical failure can – and does – happen. In fact, as many as 60% of mechanical failures are related to lack of lubrication. When you consider that each working piece can have multiple lubrication points and varying schedules, it's clear there is a lot that can go wrong – unless you have a lubricant you can rely on.

Castrol Tribol supports today's complex industrial applications. Its active molecules adapt to different operating conditions to meet the needs of multiple applications used to manufacture a wide range of goods and materials.

Castrol Tribol has been formulated to:

- Lengthen the operational life of equipment
- Deliver anti-wear and corrosion protection to equipment and applications in diverse operating environments
- Help lower costs by extending lubrication cycles and reducing downtime for maintenance and repair

DELIVERING ADAPTIVE PROTECTION ACROSS A RANGE OF APPLICATIONS

Castrol Tribol is a comprehensive range of advanced lubricants that protects and supports a host of different applications. Castrol's liquid engineers have applied a deep understanding of today's industrial process demands, formulating product variants to suit a range of different applications and operating conditions.

Products within the Castrol Tribol range include variants* that:

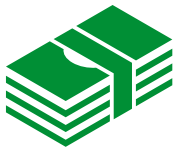
- Lubricate conveyor chains and open-trolley wheel bearings in high temperatures – like paint ovens used in the automotive and metal decorating industries
- Meet the harsh demands of the most severe hydraulic applications

- Use MicroFlux Trans (MFT) additive technology to give optimum wear protection in extreme conditions of pressure, vibration and shock loads
- Lower operating temperatures and noise levels to improve conditions for your workforce

Ask your Castrol representative for details of the products within the Tribol family that will give your equipment the optimum adaptive protection.

* Not all products are available in all markets. Please consult your Castrol representative or refer to the Lubricant Oracle at castrol.com

CASTROL TRIBOL DELIVERS REAL WORLD BENEFITS



COST SAVINGS

Castrol Tribol has the potential to drastically reduce maintenance costs.

One of Castrol's customers was looking for reduction of total maintenance cost of Paint Shop hydraulic systems. Conventional hydraulic oil used for Paint Shop hydraulic systems was changed every 1.5 to 2 years due to the oil degradation and/or equipment failure. After introducing Tribol HM 943-46 hydraulic oil, combined with Castrol oil sampling and filtration programs, the oil service life increased over eight times. Leading to fewer lubricant costs, significant reduction in labor cost and lower disposal cost.



PRODUCTIVITY IMPROVEMENTS

Castrol Tribol* has Plastic Deformation (MFT) technology that can reduce friction, helping to extend the lubrication cycle.

A major Pipe Mill needed to increase their production to meet the needs of their customers. The increase in production runs caused excessive work roll bearing losses which resulted in unscheduled downtime. The loss of production due to bearing failures was not acceptable to the management of the Pipe Mill. Castrol Tribol GR 1350-2.5 PD high-performance grease was used to handle the extreme conditions of high water washout, high pressures and heavy shock loads. Production runs could be increased to over six weeks without bearing failures. Providing a solution of increased production and decreased costs.



LOWER OPERATING TEMPERATURE

Castrol Tribol* can minimise operating temperatures enabling big energy savings.

A car manufacturer was experiencing problems with the exhaust gas fan, an essential element of the foundry. The bearings inside the fan did not reach the calculated and desired length of life. The bearings reached a temperature of 100 centigrade which caused loss of clearance in the bearings and formed extensive wear on race ways, roller bodies and roller cages. Due to this the fan was overhauled every month at a big cost. This customer replaced the incumbent lubricant with a Tribol product** and reaped very positive benefits: the operating temperature fell by more than half which was said by the customer to be equivalent to a 30% energy saving. The fan is now replaced every 9 months rather than every month, also enabling a great cost saving.

* Selected products.

** Tribol GR ES 2

Please contact us today for further information.

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