

FOODLUBE[®] HI-TORQUE 460

Performance you can trust

CUSTOMER

Major Food and Beverage Company

APPLICATION DETAILS AND ISSUES

Large worm gearbox fitted to the chocolate stirrer in July 2012 at a Major Food and Beverage Company's site. The gearbox operating for 30 minute at 30 minute intervals with a high output torque and a motor speed of 1460 rpm, meaning this is a particularly demanding application.

RECOMMENDED PRODUCTS AND SERVICES

FOODLUBE Hi-Torque 460.

The gearbox is filled with 6.4 litres of Foodlube Hi Torque 460 and has been running for approximately 4 years 2 months for an estimated 18,000 running hours.

BENEFITS / COST SAVINGS

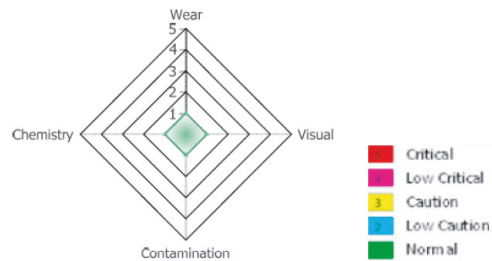
The gear oil has consistently performed well for 4 year and 2 months and continues to do so.

No oil change has been required in that time, regular oil samples have been taken and analysed to confirm this.

Most conventional gear oils will need changing annually therefore Rocol FOODLUBE Hi-Torque results in significant reductions in lubricant spend, labour costs and down time.

Comments from the independent lab (June 2016); level of wear and contamination are satisfactory, continue sampling at scheduled interval.

The visual indicator used on the July 2016 oil analysis report is shown above right, this shows the oil was still in as good a condition in July 2016 as it was in July 2012.



Due to the demanding nature of the application, in particular the excessive startups due to the gearbox running for 30 minute intervals a high quality gear oil was needed. Gear teeth are most vulnerable to wear upon startups therefore excessive startups can lead to excessive wear leading to failure. The unique start up protection system (SUPS) in the Rocol gear oils was particularly important in this application as it protect the gears during startup, climbing the gears instantaneously. As can be seen above no wear material was found in the gear oil on analysis.

Protecting the gear teeth on startup prevents wear, significantly prolonging the gearbox life and resulting in significant cost savings.

CUSTOMER FEEDBACK

"I was the engineer responsible for the asset at the time of installation and it was imperative that the new gearbox was internally protected through the use of the correct oil from day 1. It is pleasing to see that from the oil analysis report that the wear on the internal components has been minimal/ negligible and that the investment in this new equipment has been protected by the continued use of a suitably robust oil".

Group TPM Specialist

