



## **AESSEAL's MagTecta™ a high quality solution**

A US corn milling company is saving thousands of dollars in maintenance and lost or contaminated product following the installation of AESSEAL® MagTecta™ bearing protection units, with the MTBF on a number of gearbox seals improved from a matter of weeks to more than five years.

The company uses Falk gearboxes throughout the plant. These units have an input shaft and an output shaft, sealed with lip seals. The problem was that the lip seals were causing wear and tear to the gearbox shafts and began to leak oil after only a few weeks. If the box was installed on an angle instead of horizontally, oil would drain out once the lip seal failed. Also the plates that house the lip seal were typically very thin and not held to close tolerances.

The shafts were expensive to replace, in addition to which the leakage of oil was causing a potential health and safety issue. To help resolve the problem, AESSEAL® engineers had drawings made for the Falk boxes. New plates were machined out of 304 SS with tight tolerances, allowing the new plate to be made with a MagTecta™ or LabTecta™ bearing protection system already installed.

The first of the plates was installed in early 2012 on a unit that sat at a 30 degree angle. Since then AESSEAL® has upgraded several gearboxes in this way. The customer chose to standardize on the MagTecta™ so that even if the box was not installed horizontally the seal would still hold the oil inside. The replacement plates are made to such a high standard that they can be re-used time and time again. The only maintenance is the replacement of the bearing protector in the event of a box rebuild.

The pump shop manager at the plant said that the system had proved to be highly effective.

"The quality of AESSEAL's products allows us to use a gearbox in a non-horizontal installation and still keep the oil inside of the unit," he said. "Also the MagTecta™ seal doesn't damage the shafts which saves us a lot of money on rebuilds."

**'Reliability increased from <2 months to >5 years'**

Industry:	Wet Corn Milling
Product:	MagTecta™
Application:	Gear Box Sealing
MTBF Increase:	>2900%
Savings:	Thousands of dollars
Reference N.O:	TD3134447



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