



## Upgrade solves contamination problem

A pulp and paper mill in south Wales was having problems with contamination in its oscillator unit gearbox.

The unit's close proximity to the paper machine meant that it was vulnerable to the ingress of water and stock, contaminating not only the gearbox, but also the split roller unit and eccentric bearing. This led to the premature failure of the bearings, which in turn resulted in recovery costs and in unplanned downtime while the necessary repairs were carried out.

The solution put forward by AESSEAL® was the installation of the company's range of LabTecta® bearing protectors. These incorporate recognised lip seal technology into AESSEAL's advanced labyrinth design, preventing both solids and moisture from entering the bearing chamber or damaging the integrated lip seal.

AESSEAL® engineers designed eight individual solutions for the eight off-sealing locations on the oscillator assembly. Working with a mechanical machinist company, they succeeded in modifying the design of the eccentric bearing unit to enable it to accept the bearing protectors.

Since the installation in May 2022, the new system has significantly limited the ingress of water and contaminants, improving the MTBF from three to more than eighteen months, cutting down on maintenance while at the same time reducing the cost of lubrication. The company is now in the process of ordering a second set of LabTecta® bearing protectors for a standby unit.



**'significantly limited the ingress of contaminants'**

Industry:	Pulp & Paper
Product:	LabTecta®
Application:	Oscillator Unit Gearbox
MTBF Increase:	500% (and counting)
Reference N.O:	TD3093619

