

7. Waste Water Treatment

FINDING THE RIGHT FILTERING SOLUTION AND SAVE UP TO 90% OF MAINTENANCE COSTS

THE PROBLEM

The customer, a firm in North Africa that deals with waste water treatment, was looking for filter cartridges for their machinery.

BREAKDOWN
OF TWENTY
BIG GEARBOXES

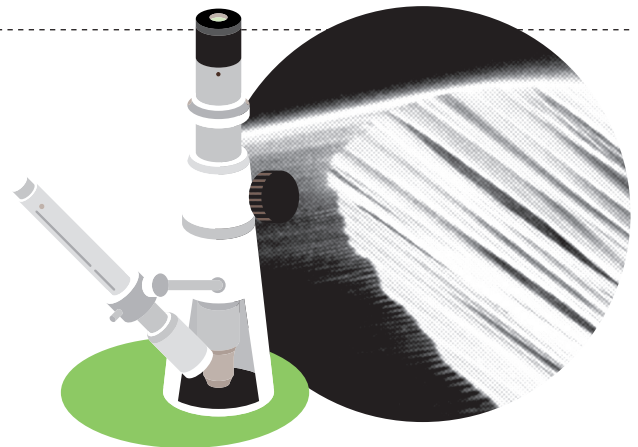
REPLACING ROLLING
BEARINGS AFTER
ONLY ONE YEAR

GEARBOXES DAMAGES
BETWEEN € 300.000 AND
€ 400.000 EVERY YEAR

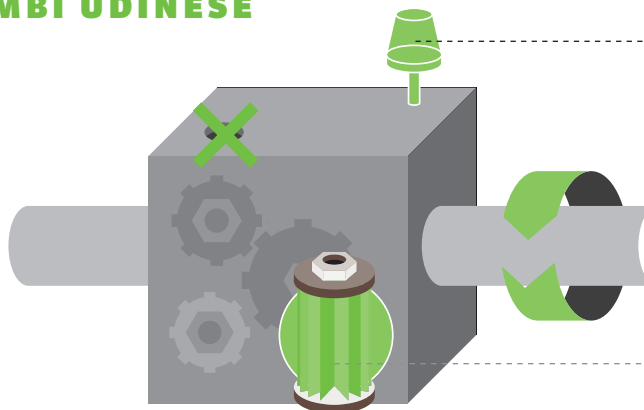


CONTROLS ANALYSIS

Controls have highlighted the problem after an analysis of the oil: the oil used for the Lubrication was contaminated with silica. Silica came from the desert, close to the plant, and entered in the machinery through the gearbox housing breathing plug, contaminating and making abrasive the oil. The result was a premature bearing wear and therefore damages in gearboxes, adding the cost from the machine downtime and, consequently, from production loss.



LA RICAMBI UDINESE SUPPLY



a.

Fitting breathing filters
on the compensation input plugs
of the gearbox housing.

b.

Installation of suitable filters
able to retain silica on the
recirculation system
of the lubrication.

THE ACTION HAS ELIMINATED THE PROBLEM OF SILICA IN THE OIL AND THE BEARINGS HAVE NEVER BEEN BEING DAMAGED ANYMORE.

FROM 1 TO 10 TIMES LIFETIME. AND A 90 PER CENT SAVINGS.

THE TOTAL SAVINGS ACHIEVED BY THE CUSTOMER WAS AMONG 2.700.000 AND 3.600.000 EURO