

OIL FILTRATION SYSTEMS



INDUSTRY

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CJCTM Application Study

Mill Screw Down Gear Lubricating System.

CUSTOMER

CORUS, Dalzell Works PLC, Motherwell. United Kingdom. (formerly known as British Steel PLC)

THE SYSTEM

System A is a Mill Screw Down Gear Lube System (oil = ISO VG 150). System B is Main table gearboxes & Roller tables (oil = ISO VG 320). The steel passes through the tension rollers backwards and forwards, continuously until the plate is formed. While passing through the rollers, the steel is quenched with water.

THE PROBLEM

The system suffered from large water and particulate ingress, causing a large number of gearbox failures. Water level 35,5 % and an uncountable ISO code.

Over the years the amount of contamination cannot be quantified, but it is known to have a damaging effect upon components and the life time of the oil.

THE SOLUTION

A CJCTM Desorber Unit D38 was installed to operate between 2 systems (A & B). In addition a CJCTM Fine Filter was installed upon each system.

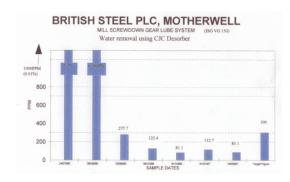
System A with HDU 3x27/108 GP, with pump flow rate = 2400 ltr./hour. System B with HDU 427/108 GP, with pump flow rate = 3100 ltr. Hour. Both Fine Filters were installed with CJC Fine Insert type BLA 27/27 (3 μ m absolute).

THE RESULT

Since the installation of the CJC equipment, the gearbox failures have ceased saving component cost and plant downtime. 35,5% of water, was reduced to 112,7 ppm, and from uncountable ISO code, down to 18/15











Before CJC After CJC



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