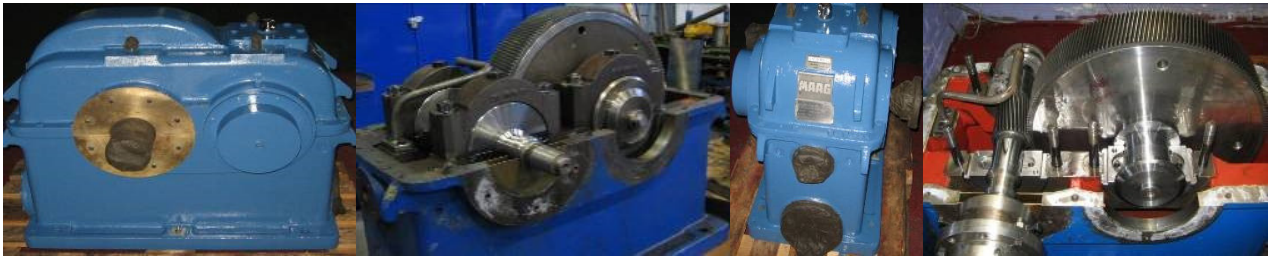


Cyrus-Bradford

Case Study 02003 High Speed Gearbox Overhaul



Project Background

A UK facility receives and processes North Sea crude oil for use across numerous industries. Product delivery & plant availability is critical in this environment.

The Brief

The customer was experiencing gear unit problems following overhaul by a third party. We were asked to investigate & quickly found gear tooth failure. We followed up with a full inspection report & a proposal to overhaul and test & certify the units, including replacing the gearing and bearings as required.

The Solution

Cyrus-Bradford engineers inspected all the components recording details and specifications. The main gear components - damaged in service were inspected and gear geometry calculated. Engineering drawings prepared & approved prior to manufacture. Replacement parts were supplied in correct materials and heat treatment to suit the application.

The unit was re-assembled, test run & certified at Cyrus-Bradford workshops with the client in attendance. Condition monitoring values were said to be to finer limits those previously achieved by OEM.

TECHNICAL DATA:

Requirement: Overhaul 30-year-old high speed unit suitable for full-service life.

Plant: Crude Oil Facility UK

Application: Re-Boiler Gear Unit.

The Result:

The package was successfully installed & commissioned and went onto exceed anticipated running hours. The customer now sends the remainder of these units to Cyrus-Bradford for scheduled overhaul on an ongoing basis.

