

A CASE OF REWORKING AND REBUILDING

CLIENT
UK POWER GENERATOR

EQUIPMENT
**HIGH VOLTAGE
[11kV] ALTERNATOR**

APPLICATION
POWER GENERATION

PHOTOS



REPORT

We were requested to investigate a noise coming from the generating set which was believed to be an engine-related issue.

Close inspection of the machines established that the defect was in fact mechanical, caused by the failure of the alternator drive end bearing.

The alternators were removed from their containers and were fully dismantled. The inspection process highlighted that the failed bearings had caused mechanical wear to the main rotor shaft.

The rotor shafts were rebuilt and machined to tolerance ready to accept new bearings.

After the shaft repair and fitting of new bearings, the alternators were rebuilt.

Working closely with the client, our fully qualified engineers completed the re-commissioning process.