

COMPUTER ANALYSIS OF BOILER TRIALS

Project Report Submitted by

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Computer Analysis of Boiler Trials

The boiler was operated over a range of gauge pressures and record all the necessary data in order to calculate various values related to the boiler such as excess air and efficiency.

There is a brief description of the performance of a boiler and also what are the products of the combustion process.

The results are fed to the computer which does an analytical presentation using the necessary formulae.

It follows a discussion about the results and compare those with the theoretical ones.

It comes out that the two main conclusions are that the boiler is characterised by a high excess air and low efficiency both these are interrelated.

Finally proposals are made of how to improve the trial procedures and also how to improve the performance of the boiler which is the most important aspect.

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