

22.12.47.

Messrs. J.I. Thornycroft & Company Limited

Yard No. 4108 - "EL MALEK FOAD"

160 kW Turbo-Generator.

This machine was not built under the Society's survey, having been originally intended for installation in an Admiralty destroyer and having been constructed under Admiralty supervision.

It is an enclosed forced ventilated water cooled machine with Class 2 insulation and the field windings have been modified to give compounding in accordance with Rule requirements.

The generator was examined on board and found to comply with Rule requirements as regards construction. To determine compliance with the requirements of the Rules as regards temperature rises, compounding, etc., a full load run of 5 hours duration was witnessed on board the ship, followed by tests for compounding, governing and parallel running.

The temperature rises were found to be satisfactory, being 42°C, 50°C and 40°C for commutator, armature and shunt field respectively with an inlet water temperature to cooler of 16.7°C, and outlet water temperature from cooler of 20°C and a return air temperature to cooler of 43.3°C.

Compounding, governing and parallel running were found satisfactory.

The insulation resistance to earth was 0.6 megohm.

The Makers, Messrs. W. H. Allen Sons & Co. Ltd., are stated to have applied a high voltage (dielectric) test of 2,000 volts to earth for one minute prior to the despatch of the machine from their Works after alterations.

In view of the satisfactory results of the examination and tests carried out, the generator can in my opinion be considered acceptable for the purposes of the classification of the electrical installation.

Nameplate Particulars

Makers: W.H. Allen Sons & Co. Ltd.  
K.W: 160  
Amps. 727  
Winding : Compound

Serial No. E2/65360  
Volts 220  
R.P.M. 1250  
Insulation : Class 2 Spiral

  
Electrical Engineer Surveyor.

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