

Lloyd's Register of Shipping.



Port Dundee

December 6th 1918.

This is to Certify that

John H. Mackie, and W. T. Badger,
the undersigned Surveyor to this Society did at the request of

The Admiralty
attend at the works of Messrs. A. Shanks & J. H. Holmes & Co. Ltd.
for the purpose of examining during construction the materials and
workmanship, and testing on completion the electric generating
machinery, type continuous current, compound wound
dynamo, driven by enclosed vertical engine,

intended for "RESCUE" tugs building by Messrs. Harland & Wolff Ltd.
Glasgow.

The following tests were carried out in the presence of the
undersigned.

Steam Engine: Number H - 8 - 18

Steam pressure 100 Lbs per sq" vacuum ✓

Revolutions p.m. 500

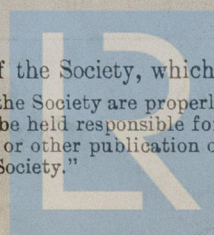
Governing: Revs. at normal load 505

„ „ zero, instant 550 steady 525

„ back to normal load, instant 490 steady 505

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:—

"While the Committee use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Committee nor the Society are under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default, or negligence of the Surveyors, or other Officers or Agents of the Society."



Generator: Number 17563.

Normal load, volts 105 amps. 119 kw. 12.5 revs. p.m. 500

Duration of trial Six hours on completion temp

taken as follows: atmos. 41° (Rise of 4°) comm. 102° (Rise of 4°)

118° (Rise of 54°) armature Shunt - 110° (Rise of 46°)
Series - 94° (Rise of 34°) field magnet

25% overload, duration of trial 30 minutes

50% " " " ✓

Insulation tests:

Flash or breakdown test, volts _____ periods _____

Insulation test by meggar _____

The aforementioned tests are in the opinion of the undersigned satisfactory, and the materials and workmanship so far as can be seen are sound and good.

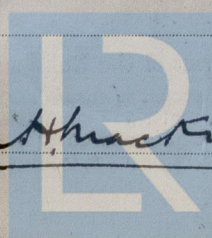
Identification marks J.H.M. on engine casing & Generator shaft

Spares :- Full set of springs : piston valves and ring
lubricator pump and oil strainer.

The short duration of overload trial was due to lack
steam. Throughout the trial, the engine exhaust
into the atmosphere only.

John Mackenzie & W.T. Badger
Surveyor to Lloyd's Register.

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Foundation