

Rpt. 13.

No 45810

**REPORT ON ELECTRIC FITTINGS.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

11 AUG 1926

Date of writing Report 9.7.1926 When handed in at Local Office 9.8.1926 Port of GLASGOW

No. in Survey held at GLASGOW. Date, First Survey 19.3.26. Last Survey 22.4.26 19  
Reg. Book.41012 on the M. Y. "STORSTEN" Tons { Gross 5240  
Net

Built at GLASGOW. By whom built MESSRS BARCLAY CURLEY Yard No. 613 When built 1926.

Owners TONSBURG REDERI. Port belonging to TONSBURG.

Electric Light Installation fitted by MESSRS ALEX<sup>r</sup> ANDERSON LTD. Contract No. 613 When fitted 1926.

System of Distribution 2 WIRE SYSTEM ✓

Pressure of supply for Lighting 110 ✓ volts, Heating NONE volts, Power 220 ✓ volts.

Direct or Alternating Current, Lighting DIRECT ✓ Power DIRECT ✓

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding overload YES, are they compound wound YES ✓

are they over compounded 5 per cent. YES ✓, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel YES ✓, is an adjustable regulating resistance fitted in

series with each shunt field. YES ✓

Are all terminals accessible and clearly marked YES, are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited YES Are the lubricating arrangements of the generators as per Rule

Position of Generators ENGINE ROOM PORT SIDE

is the ventilation in way of the generators satisfactory YES ✓, are they clear of all inflammable material YES ✓

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

No WOOD WORK NEAR and, are the generators protected from mechanical injury and damage from water, steam or oil YES

are their axis of rotation fore and aft YES ✓

Earthing, are the bedplates and frames of the generating plant efficiently earthed YES are the prime movers and

their respective generators in metallic contact YES ON ONE BED-PLATE

Main Switch Boards, where placed ENGINE ROOM

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES

are they protected from mechanical injury and damage from water, steam or oil YES, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards No WOODWORK NEAR

are they constructed wholly of durable, incombustible non-absorbent materials YES, is all insulation of high dielectric strength and of

permanently high insulation resistance YES, if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework YES, and is the

frame effectively earthed YES Are the following fittings as per Rule, viz.:— spacing or shielding of live parts

YES, accessibility of all parts YES, absence of fuses on back of board YES, proportion of omnibus

bars YES, individual fuses to voltmeter, pilot or earth lamp YES, connections of switches YES

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

EACH GENERATOR. ONE D.P. OVERLOAD, REVERSE-CURRENT CIRCUIT BREAKER INTERLOCKED WITH EQUALIZING SWITCH

EACH OUTGOING CIRCUIT. ONE D.P. KNIFE SWITCH AND D.P. FUSES

Instruments on main switchboard 4 amperemeters 3 voltmeters SWITCH &amp; METERS synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system EARTH LAMPS

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES



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Foundation

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**Insulation of Cables,** state type of cables, single or twin **SINGLE** are the cables insulated and protected as per Tables III or IV of the Rules **YES**



All Conductors are of annealed copper conforming to British Standard Specification No. 7.  
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.  
The foregoing is a correct description.

for ALEXANDER ANDERSON, LTD. J. W. Weston, Secy. Electrical Engineers. Date 12<sup>th</sup> July 1926  
NOTE GENERATORS & MOTORS ALL SUPPLIED & FITTED BY B.C. & CO.

#### COMPASSES.

Distance between electric generators or motors and standard compass 58 FEET REFRIG MOTOR NEAREST  
Distance between electric generators or motors and steering compass 30 FEET REFRIG MOTOR NEAREST  
The nearest cables to the compasses are as follows:—  
A cable carrying 4 Amperes 3 feet from standard compass 3 feet from steering compass. = LIGHTS FOR COMPASS  
A cable carrying        Amperes        feet from standard compass        feet from steering compass.  
A cable carrying        Amperes        feet from standard compass        feet from steering compass.  
Have the compasses been adjusted with and without the electric installation at work at full power.  
Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted.  
The maximum deviation due to electric currents was found to be        degrees on        course in the case of the standard compass, and        degrees on        course in the case of the steering compass.

FOR FARLAY, CORLE, & CO., LTD.

H. Sweeney

SECRETARY Builder's Signature.

Date 12<sup>th</sup> July '26

Is this installation a duplicate of a previous case no. If so, state name of vessel       

General Remarks (State quality of workmanship, opinions as to class, &c.) This installation has been fitted on board under special survey tested under full working conditions & found satisfactory.  
The workmanship was found to be good and sound.

It is submitted that this vessel is fit to be entered on THE RECORD.

Elec. Light  
D.A.

12/5/26.

Total Capacity of Generators 56 KW. ~~33.5~~ Kilowatts

The amount of Fee ... £ 23:7:6 : When applied for, 10/7/26

Travelling Expenses (if any) £ : : When received, 22/7/26 p.m. 8.1.

J. S. Rankin  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 10 AUG 1926

Assigned Elec. Light. W.W.M.



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