

Rpt. 13.

No. 45026

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

11 NOV 1925

Date of writing Report 23.9.1925 When handed in at Local Office 7-11-25 10 Port of GLASGOW.

No. in Survey held at PAISLEY & IRVINE. Date, First Survey Aug 13th Last Survey Sep 11th 1925
Reg. Book. "S. S. MEREL." (Number of Visits 4)39966. on the Tons { Gross 1088
Net

Built at IRVINE. By whom built AYRSHIRE DOCK & CO. LTD. Yard No. 497. When built 1925.

Owners MESSRS THE GENERALS & NAVY CO. Port belonging to LONDON.

Electric Light Installation fitted by MESSRS TELFORD, GRIER & MCKAY. Contract No. 497. When fitted 1925.

System of Distribution Two Wire
Pressure of supply for Lighting 110 Volts volts, Heating — volts, Power — volts.

Direct or Alternating Current, Lighting Direct Power

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 yes

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 —, 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 yes

Position of Generator In Engine Room at Starting Platform

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 — 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

Main Switch Boards, where placed on Bulkhead near Dynamo

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 — and —

are they constructed wholly of durable, incombustible non-absorbent materials Slate Base, is all insulation of high dielectric strength and of permanently high insulation resistance yes

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

1 Double Pole Switch & 2 Single Pole Fuses for Dynamo

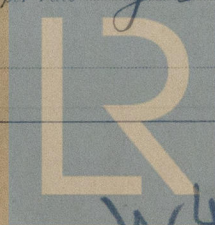
1 Double Pole Switch & 2 Single Pole Fuses for each Circuit

Instruments on main switchboard one ammeter one voltmeter — 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 Tumbler Switch Single Pole Fuse & Lamp are in series between each bus bar & earth.

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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W429-0078(172)

[illegible]

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.

Selford Grier & Mackay Ltd
per 11/7.

Electrical Engineers.

Date *19/10/25*

COMPASSES.

Distance between electric generators or motors and standard compass *66 feet*

Distance between electric generators or motors and steering compass *64 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *5* Ampères *8* feet from standard compass *4* feet from steering compass.

A cable carrying *1/2* Ampères *one* feet from standard compass *one* feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *yes*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *yes*

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 AND ON BEHALF OF
AYRSHIRE DOCKYARD CO., LIMITED.

David McCall Director.

Builder's Signature.

Date *2nd November 1925*

Is this installation a duplicate of a previous case *yes*. If so, state name of vessel *S.S. Roek*

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 and found satisfactory. The workmanship was found to be good and sound.

It is submitted that
this vessel is eligible
FOR RECORD.

Elec. Light.

D.H. 12/11/25.

Total Capacity of Generators *8* Kilowatts

The amount of Fee ... £ *8.0.0* : When applied for, *30.9.25*

Travelling Expenses (if any) £ *10.6.* : When received, *9.10.1925*

Committee's Minute *GLASGOW 10 NOV 1925*

Assigned *Elec. Light.*

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



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