

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

21 DEC 1927

Date of writing Report 19.11.27. When handed in at Local Office 12.12.27. Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 24.10.27 Last Survey 29.11.27 19  
Reg. Book. (Number of Visits.....5.....)4326. on the S.S. Yoco. Tons { Gross  
Net

Built at PORT GLASGOW. By whom built MESSRS LITHGOW'S LTD. Yard No. 803 When built 1927.

Owners MESSRS THE VACUUM OIL CO. LTD. Port belonging to LONDON.

Electric Light Installation fitted by THE SUNDERLAND FORGE &amp; ENG CO. LTD. Contract No. 803 When fitted 1927.

System of Distribution DOUBLE WIRE ✓

Pressure of supply for Lighting 110 ✓ volts, Heating — volts, Power 110 ✓ volts.

Direct or Alternating Current, Lighting DIRECT ✓ Power DIRECT ✓

If alternating current system, state frequency of periods per second — 50 ✓

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 rating 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 NO. ✓, is an adjustable regulating resistance fitted in

series with each shunt field YES

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

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

Position of Generators YES ENGINE ROOM

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

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 axes 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 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. — and —

are they constructed wholly of durable, non-ignitable non-absorbent materials —, is an insulation of high dielectric strength and of

permanently high insulation resistance —, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework YES

and is the frame effectively earthed YES Are the fittings as per Rule regarding:— 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

200 AMP D.P. O/L CIRCUIT BREAKER FOR GENERATORS & DOUBLE POLE SWITCH & FUSES  
FOR OUTGOING CIRCUIT

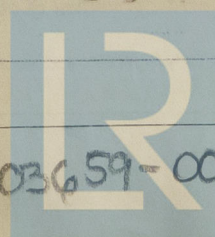
Instruments on main switchboard 2 ammeters 2 voltmeters — synchronising device for paralleling purposes.

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

EARTH LAMPS CONNECTED TO EARTH THRO SWITCHES &amp; FUSES.

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

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



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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.

p. pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.,

*Y. Thompson*

Electrical Engineers.

Date 22.11.27.

#### COMPASSES.

Distance between electric generators or motors and standard compass

240 FEET

Distance between electric generators or motors and steering compass

240

The nearest cables to the compasses are as follows:—

A cable carrying 4.57 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying 25 Ampères 10 feet from standard compass LED INTO feet from steering compass.

A cable carrying 25 Ampères LED INTO feet from standard compass 10 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

nil

degrees on

any

course in the case of the standard

compass, and

nil

degrees on

any

course in the case of the steering compass.

LITHGOWS LIMITED.

*John McFulloch*

Secretary.

Builder's Signature.

Date 9/12/27.

Is this installation a duplicate of a previous case

yes

If so, state name of vessel

SS. Pulpit Point.

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 materials & workmanship were  
found to be good and sound.

It is submitted that  
this vessel is eligible for  
THE RECORD. Elec. light.

*W.D.*  
22/12/27

Total Capacity of Generators

80

Kilowatts.

The amount of Fee

£ 32.00

When applied for,  
@ 4/19.

Travelling Expenses (if any) £

When received,  
17.12.27.

*J. Rankin*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 20 DEC 1927

Assigned

Elec. Light.



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