

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 13 MAY 1925

Date of writing Report 5.5.1925 When handed in at Local Office 12.5.1925 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 18.2.25 Last Survey 1.5.1925
Reg. Book. 90776. on the S.S. "ST. JULIEN" (Number of Visits 7)Built at CLYDEBANK. By whom built MESSRS J. BROWN & CO Yard No. 509 When built 1925.
Owners GREAT WESTERN RAILWAY. Port belonging to LONDON.

Electric Light Installation fitted by MESSRS JOHN BROWN & CO Contract No. 509 When fitted 1925.

System of Distribution TWO WIRE INSULATED

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

Direct or Alternating Current, Lighting DIRECT CURRENT Power DIRECT CURRENT

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 NO, 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 Generators IN DYNAMO ROOM BETWEEN FRAMES 57-67 MAIN DECK.

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 IN DYNAMO 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, incombustible non-absorbent materials YES, is all insulation of high dielectric strength and of permanently high insulation resistance —, 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 IS

CONTROLLED BY 500 AMP D.P. CIRCUIT BREAKER WITH ADJUSTABLE OVERLOAD AND NO-VOLT RELEASE AND WITH TIME LAG DEVICE.

EACH BRANCH CIRCUIT IS PROTECTED BY D.P. FUSES AND A S.P. SELECTOR SWITCH GIVING SUPPLY FROM EITHER GENERATOR.

Instruments on main switchboard 2 ammeters 1 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 TWO LAMPS CONNECTED

IN SERIES, WITH SWITCHES, AND WIRE BETWEEN LAMPS CONNECTED TO 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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portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....

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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.

John Brown & Company, Limited.

Electrical Engineers.

Date 8th May 1925

M. Henderson
Clydebank Secretary.

COMPASSES.

Distance between electric generators or motors and standard compass 23 FEET.

Distance between electric generators or motors and steering compass 23 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 15.4. Amperes 10. feet from standard compass 8. feet from steering 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 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 — course in the case of the standard compass, and NIL. degrees on — course in the case of the steering compass.

John Brown & Company, Limited.

M. Henderson
Clydebank Secretary.

Builder's Signature.

Date 8th May 1925

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 and
found satisfactory.
The workmanship was found to be of a
high standard

Glec. Light.
NA
13/5/25.

Total Capacity of Generators 40. Kilowatts

The amount of Fee ... £ 25.0.0. When applied for, 5/5/25

Travelling Expenses (if any) £ : : When received, 13/5/25

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

Committee's Minute GLASGOW 12 MAY 1925

Assigned *Glec. Light.*

A. G.
11/5/25

Im. 8. 24. — Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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