

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) WED. JUL 4 1923
Received at London Office

Date of writing Report 28/6/23 19... When handed in at Local Office 2/7/ 1923 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 10th May 1922 Last Survey 4th June 1923
Reg. Book. (Number of Visits 13)

57818 on the R.Y. DALGONA Tons { Gross Net

Built at LINTHOUSE By whom built ALEX STEPHEN & SON LTD No. 497 When built 1923

Owners THE BRITISH INDIA STEAM NAV. CO LTD Port belonging to GLASGOW.

Electric Light Installation fitted by ALEX STEPHEN & SON LTD Contract No. 497 When fitted 1923

System of Distribution DIRECT CURRENT, TWO WIRE

Pressure of supply for Lighting 220 volts, Heating 220 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 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 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 YES

Position of Generators IN ENGINE ROOM

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 ENGINE ROOM AT MAIN DECK LEVEL

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 ON SPECIAL PLATFORM, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

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 ON EACH GENERATOR ONE

D.P. 2000 AMP CIRCUIT BREAKER INTERLOCKED WITH A SINGLE POLE SWITCH FOR EQUALIZING CABLE, WITH OVERLOAD AND REVERSE CURRENT RELEASE THE OUTGOING CIRCUITS HAVE D.P. CIRCUIT BREAKERS WITH OVERLOAD RELEASE OR S.P. SWITCHES AND D.P. FUSES.

Instruments on main switchboard EIGHT ammeters TWO voltmeters AND ONE VOLTMETER 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



W313-0166

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.

ALEXANDER STEPHEN & SONS, LIMITED.

W. M. Arnold Secretary.

Electrical Engineers.

Date 29th June 1923.

COMPASSES.

Distance between electric generators or motors and standard compass 29 Ft FROM EMERGENCY DYNAMO, 96 Ft FROM MAIN GENERATORS.
 Distance between electric generators or motors and steering compass 29 Ft FROM EMERGENCY DYNAMO, 100 Ft FROM MAIN GENERATORS.

The nearest cables to the compasses are as follows:—

A cable carrying 6 Amperes 17 feet from standard compass 19 feet from steering compass.
 A cable carrying 4 Amperes 6 feet from standard compass 4 feet from steering compass.
 A cable carrying 1 Amperes 1.6 feet from standard compass 1.6 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.

ALEXANDER STEPHEN & SONS, LIMITED.

W. M. Arnold Secretary.

Builder's Signature.

Date 29th June 1923.

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 in every way. The workmanship, in my opinion, was good and sound.

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

5-7-23

Total Capacity of Generators 646 Kilowatts

The amount of Fee ... £ 47-13-0 :
 Travelling Expenses (if any) £ :
 When applied for, 19
 When received, See debit book.

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

Committee's Minute Glasgow 3-JUL 1923

Assigned Elec. Light

1m. 5.22.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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2-7-23