

20 AUG 1924

Rpt. 13.

No. 43893

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 27-6-1924 When handed in at Local Office 12.8.1924 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 13.4.24 Last Survey 8.8.1924  
Reg. Book. (Number of Visits 10)38543 on the S.S. "CARIBOO" Tons { Gross 7275  
Net 4463

Built at CLYDEBANK. By whom built MESSRS J. BROWN &amp; CO. Yard No. 599 When built 1924.

Owners ELDER DRUMASTER &amp; CO. LTD Port belonging to Liverpool

Electric Light Installation fitted by MESSRS J. BROWN &amp; CO. LTD Contract No. 599 When fitted 1924.

System of Distribution Two Wire Earth Return

Pressure of supply for Lighting 100 volts, Heating — volts, Power 100 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 No, is an adjustable regulating resistance fitted in series with each shunt field No

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 Moulded 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 In 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 In same compartment

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 Generators

controlled by a fuse outgoing circuits controlled by single pole 2 way switch and fuse.

Instruments on main switchboard 2 ammeters 1 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 —

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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Lloyd's Register  
Foundation  
W675-0039 1/2



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.**

*McKenderson* Electrical Engineers. Date \_\_\_\_\_  
Clydebank Secretary.

COMPASSES.

Distance between electric generators or motors and standard compass *Generators 180 ft. Oil Purifiers 180 ft.*  
Distance between electric generators or motors and steering compass *180 ft. 170 ft.*  
The nearest cables to the compasses are as follows :—  
A cable carrying *0.3* Amperes *3* feet from standard compass *20* feet from steering compass.  
A cable carrying *0.6* Amperes *26* feet from standard compass *6* feet from steering compass.  
A cable carrying *9.2* Amperes *20* 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.

**John Brown & Company, Limited.**  
*McKenderson* Builder's Signature. Date \_\_\_\_\_  
Clydebank Secretary.

Is this installation a duplicate of a previous case \_\_\_\_\_ 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 good and sound.*

*Elec. Light.*  
*20/8/24.*

Total Capacity of Generators *40* Kilowatts

The amount of Fee ... *£ 25-0-0* : { When applied for, *18 AUG 1924*  
Travelling Expenses (if any) £ : : { When received, *20/8/24*

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

Committee's Minute *GLASGOW 19 AUG 1924*  
Assigned *Elec. Light.*

1m. 9.22.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

*A. L.*  
*4/8/24*