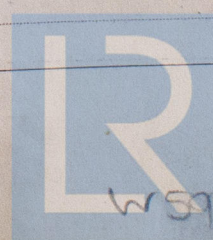


REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report *Mar 20 1924* When handed in at Local Office *Mar 20th 1924* Port of *Bristol* Received at London Office *FRI. MAR. 21 1924*
 No. in Survey held at *Appledore.* Date, First Survey *Jan 28th* Last Survey *Mar 14th 1924*
 Reg. Book. *S/S. Wheatplain.* (Number of Visits. *4*)
 Built at *Widford* By whom built *Hansen S.B. & S.R. Coy Ltd* Yard No. *10* Tons {Gross *522.64*
11446 on the *S/S. Wheatplain.* Net *199.08*
 Owners *Spillur Steamship Coy Ltd* Port belonging to *Cardiff.* When built *1924*
 Electric Light Installation fitted by *Hansen S.B. & S.R. Coy Ltd.* Contract No. When fitted *1924*

System of Distribution *Two wired direct.*
 Pressure of supply for Lighting *110* volts, Heating *none* volts, Power *none* volts.
 Direct or Alternating Current, Lighting *Direct.* Power *none.*
 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 *—*
 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 *Engine Room Starboard Side.*
 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 *Engine Room adjacent to Generator.*
 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 *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 *—*, 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 *3/4" x 3/16"*, 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
Single pole switch for each outgoing circuit & double pole switch for generator
 Instruments on main switchboard *one* ammeters *one* voltmeters *no.* 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 earth.*
lamps with switch & fuses.
 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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Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets

Yes.

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage. yes

If cables are run in wood casings, are the casings and caps secured by screws _____, are the cap screws of brass _____, are the cables run in separate grooves _____. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI *Yes.*

Watertight Glands and Deck Tubes, *are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands*
Yes.

Earthling Connections, state what earthing connections are fitted and their respective sectional areas *from Dynamics, Interlock board*
and Distribution board, Sectional area *.0145 Sq ins*
are their connections made as per Rule *yes.*

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven. —

has each navigation lamp an automatic indicator as per Rule yes, are separate screens provided for the use of oil and electric side lights yes
are separate oil lanterns provided for the mast head lights and side lights yes.

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected _____, how are the cables led

Searchlight Lamps. No. of none, whether fixed or portable — are their fittings as per Rule —

Motors, are their working parts readily accessible _____, are the coils self-contained and readily removable for replacement _____

are they protected from mechanical injury and damage from water, steam or oil _____ are their axis of rotation fore and aft _____, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed pipe ventilated forced draught, drip or flame proof type _____

Lightning Conductors where lightning conductors are required, are those fitted as per Rule 200.

ships carrying on having a flash point less than 150 F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings.

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LIGHTING AND HEATING CONDUCTORS.

MOTOR CONDUCTORS.

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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.

For and on behalf of

THE HANSEN SHIPBUILDING AND SHIPREPAIRING CO. LTD.

Electrical Engineers.

Date

J. B. Bratton
GENERAL MANAGER

COMPASSES.

Distance between electric generators or motors and standard compass 90 feet

Distance between electric generators or motors and steering compass 90 feet

The nearest cables to the compasses are as follows:—

A cable carrying 5 Ampères 12 feet from standard compass 12 feet from steering compass.

A cable carrying 4 Ampères 15 feet from standard compass 15 feet from steering compass.

A cable carrying 3 Ampères 30 feet from standard compass 30 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.

THE HANSEN SHIPBUILDING AND SHIPREPAIRING CO. LTD.

J. B. Bratton
GENERAL MANAGER

Builder's Signature.

Date 15.3.24.

Is this installation a duplicate of a previous case Yes If so, state name of vessel *1/2 Wheatrop*

General Remarks (State quality of workmanship, opinions as to class, &c. *This installation of electric*

light has been fitted in accordance with the rules and under full working conditions with satisfactory results. The material workmanship is good

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

Comd. J. B. Bratton
24/3/24

Total Capacity of Generators 3.85 Kilowatts

The amount of Fee ... £ 5 : 0

When applied for,

15.3.24

Travelling Expenses (if any) £ :

When received,

15.3.24

John W. Gwynne

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE MAR 25 1924

Assigned

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



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