

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

TUE. 9 OCT. 1923

Date of writing Report

10

When handed in at Local Office

10

Port of

Belfast

No. in Survey held at

Belfast

Date, First Survey

Apr 13,

Last Survey

Sep 21

1923

Reg. Book.

New Steel Y.S.S. "Mooltan"

(Number of Visits.....13.....)

Tons { Gross
Net

When built 1923

Built at

Belfast

By whom built

Harland & Wolff Ltd

Yard No. 587

Owners

Oriental Steam Navigation Co. Port belonging to

Belfast.

Electric Light Installation fitted by

Harland & Wolff Ltd

Contract No. 587

When fitted 1923

Dynamo, Switchboard & Motors supplied by the General Electric Co (England)

System of Distribution Double Wire, Distribution and Subdistribution System.

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

Position of Generators

Emergency Generator in the Emergency Dynamo House on Prom. Deck. Main Generators in Elec. Machinery Recess, above the Thrust Recess

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 Elec. Machinery Recess, above Thrust Recess. Emergency Switchboard in the Emergency Dynamo House, Prom. Deck.

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

Yes

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. The Switchgear of each Generator consists of a 1000 Amp. T.P. Switch (Equal. blade closing before and opening after Main) and a 700 Amp. D.P. Circuit Breaker. Max. and Ber. with Time Lag. The Outgoing Circuits of 200 Amps. and over have each a D.P. C.O. Switch & D.P. Circuit Breaker. The smaller circuits have a D.P. Switch & D.P. Fuse, 3-500 Amp. Circuits have D.P. Circuit Breakers (Max.) only.

Instruments on main switchboard 7 ammeters 2 voltmeters arranged 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



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Lloyd's Register
W1650-0386 1/2
Foundation

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.

Electrical Engineers.

Date

4/10/23

COMPASSES.

Distance between electric generators or motors and standard compass Generators 204 ft. Nearest Motor 60 ft.

Distance between electric generators or motors and steering compass " 194 " " 50 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 18 Ampères 18 feet from standard compass 12 feet from steering compass.

A cable carrying 28 Ampères 22 feet from standard compass 14 feet from steering compass.

A cable carrying Ampères 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 Nil course in the case of the standard compass, and Nil degrees on Nil course in the case of the steering compass.

For HARLAND & WOLFF, LTD.

Builder's Signature.

Date 4/10/23

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 is fitted in accordance with the Rules & the Workmanship is good. Tested under working & overload conditions & found satisfactory

It is submitted that
this vessel is eligible
THE BROOD. Elec. Light.
W.F. 4/10/23

Total Capacity of Generators 945 Kilowatts

The amount of Fee ... £ 55 : 14 : 6 When applied for, 28.9 19 23

Travelling Expenses (if any) £ ✓ : See debit book. When received,

Committee's Minute

Assigned

William Butler
Surveyor to Lloyd's Register of Shipping.



1m922.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)