

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 18 APR 1928

Date of writing Report

19

When handed in at Local Office

27<sup>th</sup> Apr

Port of

Belfast

No. in  
Reg. Book.

Survey held at

Belfast

Date, First Survey

3<sup>rd</sup> Feb

Last Survey

25<sup>th</sup> Apr

19 28

(Number of Visits.....)

on the

STEEL TWIN SC

HOOIBERG

Tons

Gross

Net

Built at

Belfast

By whom built

Harland &amp; Wolff Ltd

Yard No.

834

When built

1928

Owners

Lago Shipping Co. Ltd

(A. Wei &amp; Co. Mgrs)

Port belonging to

London

Electric Light Installation fitted by

Harland &amp; Wolff Ltd

Contract No.

834

When fitted

1928

System of Distribution Two wire direct current to distribution boxes ✓

Pressure of supply for Lighting

110

volts, Heating

-

volts, Power

110

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 - aft

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 on aft Bulkhead

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

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 connected to separate sets of bus-bars with double poles, switches &amp; fuses, and each outgoing circuit has double pole change over switches + double pole fuses

Instruments on main switchboard

Two

ammeters

one

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

Earth Indicator

lamps with change over switch to each set of bus-bars

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

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Foundation

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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP ... ..								
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP ...								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP ... ..								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR ... ..								
	FRESH WATER PUMP ... ..								
	ENGINE TURNING GEAR ... ..								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...								
	OIL FUEL TRANSFER PUMP ...								
	WINDLASS ... ..								
	WINCHES, FORWARD ... ..								
	WINCHES, AFT ... ..								
	STEERING GEAR ... ..								
	WORKSHOP MOTOR ... ..								
	VENTILATING FANS ... ..								
	Blower motor for Galley Range	2	0.003 ✓	3	0.036	5.6	75	Rubber	Lead Covered



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 25-4-28.

COMPASSES.

Distance between electric generators or motors and standard compass 210 feet

Distance between electric generators or motors and steering compass 205 feet

The nearest cables to the compasses are as follows:—

A cable carrying 9 Ampères 10 feet from standard compass 5 feet from steering compass.

A cable carrying 14 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 all course in the case of the standard compass, and Nil degrees on all course in the case of the steering compass.



Builder's Signature.

Date 25-4-28.

Is this installation a duplicate of a previous case Yes If so, state name of vessel Lia Juana

General Remarks (State quality of workmanship, opinions as to class, &c.)

This work has been done under special survey. The materials and workmanship are sound and good. The installation has been fitted in accordance with the rules & tried out under full working conditions. The vessel is now eligible, in my opinion, for notation "Electric light".

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

*[Signature]*  
9/5/28

Total Capacity of Generators 10 Kilowatts

The amount of Fee ... £ 10 : — : 27/4/28

Travelling Expenses (if any) £ : : 21/5/28

*R. Lee Amers*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*Elec. light*

Im. 3.22—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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