

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 3 JUL 1930

Date of writing Report

19

When handed in at Local Office

2-7-30

Port of

Belfast.

No. in Survey held at

Belfast.

Date, First Survey

2nd March

Last Survey

10th June

19 30

Reg. Book.

(Number of Visits.....23)

26171 on the Steel Sc "DARIEN" & "LAMAREA"

Tons { Gross
Net

Built at Birkenhead

By whom built Hammell, Laird & Co. Yard No.

When built 1924

Owners Balboa Shipping Co. (United Fruit Co) Mq. Port belonging to

Electric Light Installation fitted by The Sunderland Forge & Eng. Co. Ltd Contract No.

When fitted 1930.

System of Distribution

Single wire for lighting & double wire for Power.

Pressure of supply for Lighting

110

volts, Heating

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 rating

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, clearly marked, and furnished with sockets

Yes

, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched

Yes

Are the lubricating arrangements of the generators as per Rule

Yes

Position of Generators

Generator flat 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 axes 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

Generator flat 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

Yes

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

, 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, non-ignitable 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 insulated from the slab

Yes

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

and is the frame effectively earthed

Yes

Are the fittings as per Rule regarding:— 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

Triple pole overload & reverse current circuit breakers for each generator. Double pole switches & fuses for power feeder circuits, & single pole switches & fuses for lighting circuits.

Instruments on main switchboard

9

ammeters

5

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

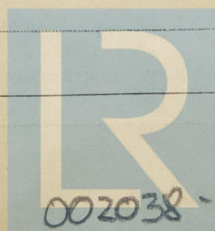
Lamp, switch, & fuse on each pole connected to earth.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

Yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

Yes



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002038 - 002050 - 0207 1/2

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

002038-002050-02072/2

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.

p.pro. THE SUNDERLAND FORGE & ENG.CO.LTD.,

Electrical Engineers.

Date 26.6.30.

COMPASSES.

Distance between electric generators or motors and standard compass

96 feet

Distance between electric generators or motors and steering compass

100 feet

The nearest cables to the compasses are as follows:—

A cable carrying 17.2 Ampères 6 feet from standard compass 8 feet from steering compass.

A cable carrying 19 Ampères 2 feet from standard compass 2 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.

WED WORKMAN CLARK (1928) LIMITED.

F. Cunningham SECRETARY.

Builder's Signature.

Date

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 installed under special survey & in accordance with the Rules. The workmanship is good and the installation has been tried out under working conditions and found satisfactory. In my opinion the vessel is eligible for record of "Electric light."

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

5/7/30.

Total Capacity of Generators 875. Kilowatts.

See Secretary's letter 26 Apr. 1930

The amount of Fee ...	£	:	:	When applied for,
				19
Travelling Expenses (if any) £	:	:	:	When received,
				19

John. K. Williams.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Lt



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