

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

10 MAY 1934

Received at London Office.....

Date of writing Report

19

When handed in at Local Office

9th May 1934

Port of

Belfast

Included in

7-2

March

19

No. in Surrey held at

Belfast

Date, First Survey

Last Survey

(Number of Visits.....)

Reg. Book.

on the

"INCOMATI"

Tons

Gross 7368.51

Net 4539.90

Built at

Belfast

By whom built

Workman, Clark (1928) Ltd

Yard No. 532

When built 1934-4

Owners

Bank Line Ltd

Port belonging to

Belfast

Electric Light Installation fitted by

The Sunderland Forge & Eng. Co. Ltd

Contract No. 532

When fitted 1934

Is the Vessel fitted for carrying Petroleum in bulk

No

System of Distribution

Double Wire

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 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

Engine Room. Two Port and Two Starboard.

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

are the generators protected from mechanical injury and damage from water, steam or oil

yes

are their axes of rotation fore and aft

yes

are the prime movers and

Earthing, are the bedplates and frames of the generating plant efficiently earthed

yes

their respective generators in metallic contact

yes

Main Switch Boards, where placed

Engine Room Port Side Aft.

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

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

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

yes

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, No. Time Lag, as an equalizer. Double Pole, Quick Break switch and fuses for each outgoing circuit.

Instruments on main switchboard

6

ammeters

4

volts

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 Lamp Switch and Fuse on each pole

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

© 2020

Lloyd's Register Foundation

W179-0164 (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.

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

Electrical Engineers.

Date 27.4.34.

W. Park

COMPASSES.

Distance between electric generators or motors and standard compass 125 FEET

Distance between electric generators or motors and steering compass 116 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 3.3 Ampères 9 feet from standard compass 8 feet from steering compass.

A cable carrying 11 Ampères 9 feet from standard compass Led into feet from steering compass.

A cable carrying 11 Ampères Led into feet from standard compass 8 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 courses in the case of the standard compass, and nil degrees on all courses in the case of the steering compass.

pro WORKMAN CLARK (1928) LIMITED.

F. Cunningham

Secretary

Builder's Signature.

Date

Is this installation a duplicate of a previous case yes. If so, state name of vessel "Inchanga".

General Remarks (State quality of workmanship, opinions as to class, &c.) This installation has been fitted in the vessel under special survey. The materials and workmanship are sound and good. An insulation resistance test has been applied and the installation tried out under working conditions with satisfactory results. In my opinion the vessel is eligible for notation in the Register Book of "Electric Light".

Noted
L.Y.
15/5/34.

Total Capacity of Generators 416. Kilowatts.

The amount of Fee ... £ 41 : 18 : 4th May 1934

Travelling Expenses (if any) £ :

When received, 2.7 1934

John K. Williams.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 18 MAY 1934

Assigned

Elec. Lt.



© 2020

Lloyd's Register
Foundation