

Rpt. 13.

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 1699 1/2

14 SEP. 1926

Date of writing Report 13th Apr 1926 When handed in at Local Office 13th Apr 1926 Port of Leith

No. in Survey held at Leith

Date, First Survey 22nd July 1926 Last Survey 8th Sept 1926

Reg. Book. on the Steam Tug "Wellington"

(Number of Visits.....)

Built at Leith

By whom built John Can Somerville & Co. Yard No. 136

Tons { Gross
Net

When built 1926

Owners Alexandra Towing Co. Ltd

Port belonging to

Liverpool

Electric Light Installation fitted by John Can Somerville & Co.

Contract No. 136

When fitted 1926

System of Distribution

Double Wire ✓

Pressure of supply for Lighting

100 ✓

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

Direct Current ✓

Power

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

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

Axis fore & aft : Starboard side 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

12" horizontally 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

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

yes ✓

, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

12" horiz. 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

Switch and fuses and one D.P. switch and fuses on each outgoing circuit

Instruments on main switchboard

one

ammeters

one

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

✓

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 ✓

013794-013805-0207 1/2

0207 1/2



© 2021

Lloyd's Register
Foundation

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

[illegible]

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.

JOHN CRAN & SOMERVILLE, LTD

Electrical Engineers.

Date 13.9.26

COMPASSES.

Distance between electric generators or motors and standard compass about 50 feet

Distance between electric generators or motors and steering compass ✓

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères 8 feet from standard compass ✓ feet from steering compass.

A cable carrying ✓ Ampères ✓ feet from standard compass ✓ 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 ✓ degrees on ✓ course in the case of the steering compass.

JOHN CRAN & SOMERVILLE, LTD.

J. Anderson Secy

Builder's Signature.

Date 13.9.26

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 well fitted, and proved satisfactory on trial

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

TWD
14/9/26

Total Capacity of Generators 1 Kilowatts

The amount of Fee ... £ 3 : 12 : 6

When applied for,
13.9.1926.

Travelling Expenses (if any) £ :

When received,
3/10/26

A. T. Thomas

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 17 SEP 1926

TUES. 31 MAY 1927

Assigned

Elec Light



© 2021

Lloyd's Register
Foundation