

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JUN. 26 1923

Date of writing Report 19 When handed in at Local Office 25/6/23 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle.

Date, First Survey 7<sup>th</sup> MayLast Survey 13<sup>th</sup> June

19 23

Reg. Book. Supp.

(Number of Visits 6)

79346 on the Haddon

Tons { Gross 1750

Net 750

Built at Newcastle.

By whom built Swan Hunter &amp; Wigham Richardson

Yard No. 1146

When built 1923

Owners Tyne Tees Steam Shipping Co. Ltd.

Port belonging to

Newcastle.

Electric Light Installation fitted by Swan Hunter &amp; Wigham Richardson Ltd. Contract No. 4821 When fitted 1923

System of Distribution Double wire ✓

Pressure of supply for Lighting 110 ✓

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

Direct ✓

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

Yes

series with each shunt field

Are all terminals accessible and clearly marked

Yes

or short circuited

Yes

Are the lubricating arrangements of the generators as per Rule

Yes

Position of Generators

Engine room 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

and

Yes

, 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

Engine room starboard side

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

1 Double pole quick break switch for generator + one single pole quick break switch for each outgoing circuit, Double pole fuses on generator + circuits

Instruments on main switchboard

1

ammeters

1

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

Lamps connected through switch + fuses to earth

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



**Cable Sockets and other connections,** are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets

**Cable Runs**, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage. Yes , Lead Covered & Armoured Cables

If cables are run in wood casings, are the casings and caps secured by screws \_\_\_\_\_, are the cap screws of brass \_\_\_\_\_, are the cables run in separate grooves \_\_\_\_\_. If armored and lead covered cables are secured by metal clips, are the clips spaced as per Table VI \_\_\_\_\_ **Yes**

**Joints in Cables, state if any, and how made, insulated, and protected** *none made*

Bushes in Beams and Non-watertight Positions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed Yes state the material of which the bushes are made Lead

\_\_\_\_\_, are their connections made as per Rule \_\_\_\_\_.

**Alternative Lighting**, are the groups of lights in the propelling machinery space arranged as per Rule 42

**Emergency Supply,** state position and method of control of the emergency supply and how the generator is driven

Navigation Lamps, are these separately wired Yes controlled by separate switch and separate fuses Yes

are the fuses double pole....., are the switches and fuses grouped in a position accessible only to the officers or watch

has each navigation lamp an automatic indicator as per Rule Yes, are separate screens provided for the use of oil and electric side lights Yes

are separate oil lanterns provided for the mast head lights and side lights Yes

**Fittings**, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them: if so, how are they protected

ittings with guard & cast iron cover

re any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected.....

\_\_\_\_\_

here are the controlling switches situated \_\_\_\_\_

.....

Searchlight Lamps, No. of \_\_\_\_\_, whether fixed or portable \_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_

**rc Lamps**, other than searchlight lamps, No. of \_\_\_\_\_, are their live parts insulated from the frame or case \_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_

motors, are their working parts readily accessible \_\_\_\_\_, are the coils self-contained and readily removable for replacement \_\_\_\_\_

*the brushes, brush holders, terminals and lubricating arrangements as per Rule \_\_\_\_\_, are the motors placed in well-ventilated compartments in which*

flammable gases cannot accumulate and clear of all inflammable material ~~.....~~

are they protected from mechanical injury and damage from water, steam or oil \_\_\_\_\_ are their axis of rotation fore and aft \_\_\_\_\_

situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type.

....., if not of this type, state distance of the combustible material horizontally or vertically above the motors \_\_\_\_\_ and \_\_\_\_\_

**Control Gear and Resistances**, are the generator field and motor speed regulators, starters and controllers constructed as per Rule.....*Yes*

**Lightning Conductors**, where lightning conductors are required, are these fitted as per Rule yes.

**hips carrying Oil having a Flash Point less than 150° F.** *Have the special requirements of the Rules been complied with regarding switches, joint boxes.*

ion and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings

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



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.

For  
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

Electrical Engineers.

Date 20 June 1923

#### COMPASSES.

Distance between electric generators or motors and standard compass

90 feet

Distance between electric generators or motors and steering compass

94 feet

The nearest cables to the compasses are as follows:—

A cable carrying .25 Ampères on the feet from standard compass 5 feet from steering compass.

A cable carrying .25 Ampères 5 feet from standard compass on the 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.

SWAN, HUNTER & WIGHAM RICHARDSON, LTD.

G. F. Mueedy  
DIRECTOR

Builder's Signature.

Date 21 June 1923

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.)

The above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation elec light, wireless.

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

W.D.

27/6/23

Total Capacity of Generators 13.97 Kilowatts

The amount of Fee ... £ 14 : — :

When applied for,

20/6/23

Travelling Expenses (if any) £ :

When received,

21/6/23

W.T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 29 JUN. 1923

Assigned

Im. 9.23.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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Foundation