

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 93528

Date of writing Report

When handed in at Local Office

4/3/1936

Port of

Newcastle-on-Tyne

-5 MAR 1936

No. in Survey held at

Newcastle

Reg. Book. Supp

Date, First Survey

28 Jan

Last Survey

25 Feb

1936

38423. on the

S. S. Hopstar.

(Number of Visits 5)

Built at Wallsend

By whom built

Swan Hunter & W. R. Yard No. 1513

Tons { Gross
Net

When built 1936

Owners Wallsend Shipping Co. Ltd

Port belonging to

Newcastle

Electric Light Installation fitted by Swan Hunter & W. R.

Contract No. 1513 When fitted 1936

Is the Vessel fitted for carrying Petroleum in bulk No.

System of Distribution

Double Wire

Pressure of supply for Lighting

110

volts, Heating

None

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 temperature rise

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

yes.

Have certificates of test results for machines under 100 kw. been submitted and

approved

yes.

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing

None.

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 starboard side

, 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

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, non-ignitable non-absorbent

materials

yes

, is all insulation of high dielectric strength and of permanently high insulation resistance

yes

is it of an approved type

yes.

, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other

non-hygroscopic insulating material, and the slab similarly insulated from its framework

—

, is the non-hygroscopic insulating material of an approved

type

—

, 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

, temperature rise of

omnibus bars

yes

, individual fuses to voltmeter, pilot or earth lamp

yes

, are moving parts of switches alive in the

"off" position

No

are all screws and nuts securing connections effectively locked

yes

are any fuses fitted on the live side of

switches

No.

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

R.P. change-over switch with R.P. fuses for Dynamos, S.P. switches with R.P. fuses for outgoing circuits. ✓

Are turbine driven generators fitted with emergency trip switch as per rule

None

Are cupboards or compartments containing switchboards composed of

fire-resisting material or lined with approved material

None

Instruments on main switchboard

2

ammeters

1

voltage meters

No

synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection

yes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

Lamps connected to earth through switches & fuses. ✓

Switches, Circuit Breakers and Fusible Cut-outs,

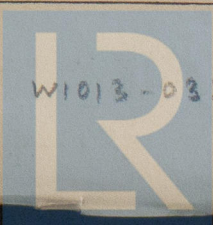
do these comply with the requirements of the Rules

yes

are the fusible cutouts of an approved type

yes.

have the reversed



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All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

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 3rd March 36

COMPASSES.

Distance between electric generators or motors and standard compass 110

Distance between electric generators or motors and steering compass 105

The nearest cables to the compasses are as follows:—

A cable carrying 36 Amperes in feet from standard compass in feet from steering compass.

A cable carrying 36 Amperes 4 feet from standard compass 4 feet from steering compass.

A cable carrying 4 Amperes 5 feet from standard compass 5 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.

For
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

Builder's Signature.

Date 3rd March 36

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 instⁿ has been fitted

out under special survey. The workmanship & materials used were good. The insulation resistance good. On completion the dynamo governors main board, fuses, cables & fittings were examined & tested under working conditions & found suitable for a classed vessel.

Noted

True

11.3.36

Heating

Search

Arc Lar

Motors

are the

inflame

water al Capacity of Generators 17 Kilowatts.

mater

amount of Fee ... £ 16 : - :

When applied for,

4 MAR 1936

When received,

12-3 1936

13/6

W. T. Badger.

Surveyor to Lloyd's Register of Shipping.

Travelling Expenses (if any) £ :

FRI. 13 MAR 1936

Committee's Minute

Assigned

See minute
on F.E. Rpt.



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