

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office... MAR 27 1940

Date of writing Report... 8. 3. 1940 When handed in at Local Office... 26 MAR 1940 Port of... HULL

No. in Survey held at... Hull Date, First Survey... 5. 12. 39 Last Survey... 29. 2. 1940 (Number of Visits... 5)

Reg. Book. on the... **EMPIRE HENCHMAN** Tons { Gross... 243 Net... 0

Built at... Selby By whom built... Cochrane & Sons Ltd Yard No... 1206 When built... 1940. 2

Owners... Ministry of Shipping Port belonging to... London

Electrical installation fitted by... Wm Goodey & Sons Ltd Contract No... When fitted... 1940. 2

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F... E.S.D... Gy.C... Sub.Sig...

Have plans been submitted and approved... Yes System of Distribution... Parallel Constant Current 2 wire Voltage of supply for Lighting... 110

Heating... Power... 220 Direct or Alternating Current, Lighting... Direct Power... Direct If Alternating Current state frequency... Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off... Yes Are turbine emergency governors fitted with a

trip switch as per Rule... Generators, are they compound wound... Yes, are they level compounded under working conditions... Yes

if not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they

arranged to run in parallel... No, are shunt field regulators provided... Yes Is the compound winding connected to the negative or positive pole

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

test for machines under 100 kw. been supplied... Yes and the results found as per rule... Yes Are the lubricating arrangements and the construction

of the generators as per rule... Position of Generators... Engine Room Starboard side 7 1/2 KW. for'd + 4 1/2 KW. aft.

is the ventilation in way of generators satisfactory... Yes are they clear of inflammable material... Yes, if situated

near unprotected combustible material state distance from same horizontally... and vertically... are the generators protected from mechanical

injury and damage from water, steam and oil... Yes, are the bedplates and frames earthed... Yes and the prime movers and generators in metallic

contact... Switchboards, where are main switchboards placed... Engine Room adjacent to Dynamometer

are they in accessible positions, free from inflammable gases and acid fumes... Yes, are they protected from mechanical injury and damage from water, steam

and oil... Yes, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material is used for the panels... Slate, if of synthetic insulating material is it an Approved Type... if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Yes Is the frame effectually earthed... Yes

Is the construction as per Rule... Yes, including accessibility of parts... Yes, absence of fuses on the back of the board... Yes, individual fuses

to pilot and earth lamps, voltmeters, etc.,... Yes, locking of screws and nuts... Yes, labelling of apparatus and fuses... Yes, fuses on the "dead"

side of switches... Description of Main Switchgear for each generator and arrangement of equaliser switches... 75 KW DP Circuit

DP Breaker. direct lead to Port + Starboard Shore boxes which contain DP Circuit Breaker

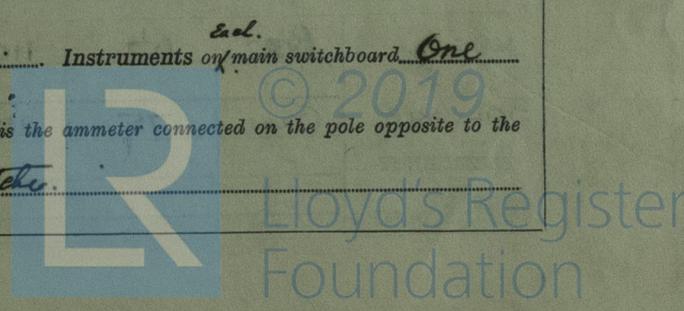
4 1/2 KW: — DP linked switches & fuses

and for each outgoing circuit... DP linked switches & fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... One

ammeters... One voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... Earth Testing, state means provided... Cast lamps & switches





The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description.

WM BROADY & SON LTD,  
ENGLISH STREET,  
HULL.

Electrical Engineers.

Date 12<sup>th</sup> March 1940.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 60 feet.

Minimum distance between electric generators or motors and steering compass 50 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 3 Ampères 6 feet from standard compass & 6 feet from steering compass.

A cable carrying 4 Ampères 9 feet from standard compass 4 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 Any course in the case of the standard compass, and Nil degrees on any course in the case of the steering compass.

WM BROADY & SON LTD

Builder's Signature.

Date 1 MAR 1940

D. J. [Signature] DIRECTOR

Is this installation a duplicate of a previous case No ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

This Electrical installation is in accordance with the Rules & the approved plans. It has been fitted on board under Special Survey. The workmanship & materials are good & when subjected to the tests prescribed by the Rules it was found satisfactory in every respect.

W. J. [Signature]  
9/4/40.

Total Capacity of Generators 4 1/2 Kilowatts for Ships lights & 75 " for Salvage.

The amount of Fee ... £ 5-0-0 When applied for, 19...

Travelling Expenses (if any) £ : : When received, 15-4-19 40

[Signature]  
Surveyor to Lloyd's Register of Shipping.

TUE. 9 APR 1940

Committee's Minute

Assigned See Hull J.C. 50591

2m.10.38.—Transfer. (MADE IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)

