

No. 50477

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

FEB -2 1940

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of.....**HULL**.....

No. in Survey held at.....**Hull**..... Date, First Survey.....**21.12.39**..... Last Survey.....**9.1.1940**.....
Reg. Book.....**"TWATE"**..... (Number of Visits.....**4**.....)

No. and diam..... on the..... Tons { Gross.....**314**.....
Net.....**116**.....

Built at.....**Selling**..... By whom built.....**Cochrane & Sons Ltd**..... Yard No.....**1210**..... When built.....**1940**.....

Owners.....**Neale & West Ltd**..... Port belonging to.....**Cardiff**.....

Electrical Installation fitted by.....**Wm. Moody & Son Ltd**..... Contract No.....**✓**..... When fitted.....**1940**.....

Is vessel fitted for carrying Petroleum in bulk.....**no**..... Is vessel equipped with D.F.....**✓**..... E.S.D.....**✓**..... Gy.C.....**✓**..... Sub.Sig.....**✓**.....

Have plans been submitted and approved.....**✓**..... System of Distribution.....**Two wire**..... Voltage of supply for Lighting.....**110**.....

Heating.....**✓**..... Power.....**✓**..... Direct or Alternating Current, Lighting.....**DC**..... Power.....**✓**..... If Alternating Current state frequency.....**✓**..... Prime Movers,.....

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

Hydraulic test pressure.....**✓**..... trip switch as per Rule.....**✓**..... Generators, are they compound wound.....**✓**....., are they level compounded under working conditions.....**✓**.....

Are drain c.....**✓**..... 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.....**✓**....., are shunt field regulators provided.....**✓**..... Is the compound winding connected to the negative or positive pole.....**positive**.....

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.....**✓**..... and the results found as per rule.....**✓**..... Are the lubricating arrangements and the construction.....**✓**.....

of the generators as per rule.....**✓**..... Position of Generators.....**Starboard side of Engine room**.....

....., is the ventilation in way of generators satisfactory.....**✓**..... are they clear of inflammable material.....**✓**....., 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.....**✓**....., are the bedplates and frames earthed.....**✓**..... and the prime movers and generators in metallic.....**✓**.....

contact.....**✓**..... Switchboards, where are main switchboards placed.....**Starboard side of Engine room aft**.....

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

and oil.....**✓**....., 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.....**✓**..... Is the frame effectually earthed.....**✓**.....

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

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

side of switches.....**✓**..... Description of Main Switchgear for each generator and arrangement of equaliser switches.....**One 100 Amp**.....

D.P. switch - two 100 Amp single pole fuses.....

For each of the following outgoing circuits:-.....

One 30 Amp DP switch - two 30 Amp S.P. fuses.....

and for each outgoing circuit.....**✓**.....

Ventilation, wheelhouse, engine room, after accommodation, forecastle, wireless.....

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

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

qualiser connection.....**✓**..... Earth Testing, state means provided.....**Two earth lamps**.....

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Foundation
W300-0238(1/2)

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 24.1.40

COMPASSES.

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

29 ft.
25 ft.

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

The nearest cables to the compasses are as follows:—

A cable carrying Ampères 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.....

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted.....

The maximum deviation due to electric currents was found to be degrees on course in the case of the
standard compass, and degrees on course in the case of the steering compass.

FOR COCHRANE & SONS LTD.

J. M. Cochrane.

Builder's Signature.

Date 26/1/40

Is this installation a duplicate of a previous case.....

If so, state name of vessel.....

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

The electrical installation of this vessel has been
fitted under special survey, tested & examined
under full working load & found satisfactory.

Total Capacity of Generators..... Kilowatts.

The amount of Fee ...

£

3 : 10

When applied for,

31 JAN 1940

Travelling Expenses (if any) £

When received,

5/2/40

Committee's Minute

TUE. 13 FEB. 1940

Assigned

See Incl 7E 50477

Surveyor to Lloyd's Register of Shipping.



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