

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

16 AUG 1943

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of HULLNo. in Survey held at Selly & Hull Date, First Survey 1. 4. 43 Last Survey 28. 4. 19 43
Reg. Book. (Number of Visits.....12.....)on the H.M.T. POLLOCK Tons {Gross 387
Net 127Built at Selly By whom built Cockran & Son Ltd Yard No. 1266 When built 1943Owners The Admiralty Port belonging to.....Electrical Installation fitted by Wm Broadly & Son Ltd Contract No. When fitted 1943Is vessel fitted for carrying Petroleum in bulk no Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. no Sub.Sig. noHave plans been submitted and approved Yes System of Distribution two wire Voltage of supply for Lighting 110Heating 110 Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity..... Prime Movers,has the governing been tested and found as per Rule when full load is suddenly thrown on and off Yes Are turbine emergency governors fitted with atrip 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....., are shunt field regulators provided Yes Is the compound winding connected to the negative or positive polenegative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing..... Have certificates oftest for machines under 100 kw. been supplied Admiralty and the results found as per rule Yes Are the lubricating arrangements and the constructionof the generators as per rule Yes Position of Generators Engine room starboard side on platform CDAGis 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 metalliccontact Yes Switchboards, where are main switchboards placed Engine room starboard side neargeneratorsare they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steamand oil Yes, if situated near unprotected combustible material state distance from same horizontally..... and vertically....., what insulationmaterial is used for the panels units mounted on framework insulated with mica, if of synthetic insulating material is it an Approved Type....., if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule..... Is the frame effectually earthed YesIs the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fusesto 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 Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole, quickbreak, knife switches & double pole fusesand for each outgoing circuit Double pole, quick break, knife switches & double pole fusesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard oneammeters one voltmeters..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection..... Earth Testing, state means provided Lamps coupled to earth via switches & fusesSwitches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an approved type Yes, are all fuses labelled asper Rule Yes If circuit breakers are provided for the generators, at what overload current did they open when tested....., are the reversed current

protection devices connected on the pole opposite to the equaliser connection....., have they been tested under working conditions, and at what current

did they operate..... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule YesCables, are they insulated and protected as per the appropriate Tables of the Rules Yes, if otherwise than as per Rule are they of an approved type.....state maximum fall of pressure between bus bars and any point under maximum load 5 V, are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends.....

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PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES

MOTOR CABLES.

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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.

043

Electrical Engineers.

Date 21. 7. 43.

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 65 ft

Minimum distance between electric generators or motors and steering compass..... 70 ft

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères inside feet from standard compass 5 feet from steering compass.

A cable carrying 1/2 Ampères 5 feet from standard compass inside 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

The maximum deviation due to electric currents was found to be Nil degrees on every course in the case of the

standard compass, and Nil degrees on every course in the case of the steering compass.

FOR OOOHRANE & SONS LTD.

Builder's Signature.

Date

V. Gray

DIRECTOR

Is this installation a duplicate of a previous case Yes If so, state name of vessel GRILSE

Plans. Are approved plans forwarded herewith No If not, state date of approval 16.9.41

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith Admiralty supply.

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

The electrical equipment of this vessel was installed under special survey and in accordance with the approved plans and with the specification. The materials used are of good quality and the workmanship is good. On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted

L.H.

27/8/43

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 17. 10. - When applied for, 17. 10. - 13 AUG. 1943

Supervision of Specification. Travelling Expenses (if any) £ : : When received. 19.

ADMIRALTY

A/c rendered from London 7 SEP '43

S. G. Cornwell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 31 AUG 1943

Assigned See minute on V.E. Report.



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