

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

of writing Report. 15 Nov. 44. When handed in at Local Office 20. 11. 44. Port of GLASGOW. Received at London Office 23 NOV 1944

in Survey held at LEITH. Date, First Survey 19. 7. 44. Last Survey 31. 10. 44. Reg. Book. (Number of Visits. 2.)

on the H.M. RESCUE TUG. "MEDIATOR".

built at LEITH. By whom built MESSRS. HENRY ROBB. LTD. Tons { Gross. Net. 335. When built 1944. Yard No. 335.

owners ADMIRALTY. Port belonging to

Electrical Installation fitted by MESSRS. HENRY ROBB. LTD. Contract No. 335. When fitted 1944.

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

ve plans been submitted and approved. System of Distribution. Voltage of supply for Lighting 220.

ating 220. Power 220. Direct or Alternating Current, Lighting. Prime Movers,

the emergency governors fitted with a switch as per Rule. Generators, are they compound wound, are they level compounded under working conditions.

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

ing 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

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

he generators as per rule. Position of Generators. In engine room

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

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

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

act. Switchboards, where are main switchboards placed. Near generators.

CRISTAN. 1 25 1 19/083 97 118 165 186 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200.

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

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

is used for the panels. FIRE PUMP. 1 25 1 19/083 97 118 165 186 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200.

insulating material (slates or marble) are all conducting parts insulated in accordance with the Rules. Is the frame effectually earthed.

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

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

of switches. Description of Main Switchgear for each generator and arrangement of equaliser switches.

STANDBY L.T. P. Circuit Breaker. 19/083 97 118 165 186 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200.

TURNING MOTOR.

for each outgoing circuit. D.P. Switch and fuses

compartments containing switchboards composed of fire-resisting material or lined as per Rule. Instruments on main switchboard. 3

eters. 3. voltmeters. synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

iser connection. Earth Testing, state means provided. Earth lamps.

ches, Circuit Breakers and Fuses, are they as per Rule, are the fuses an approved type, are all fuses labelled as

Rule. If circuit breakers are provided for the generators, at what overload current did they open when tested, are the reversed current

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

hey operate. 70 and 200. Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule.

es, are they insulated and protected as per the appropriate Tables of the Rules, if otherwise than as per Rule are they of an approved type. W.E.

maximum fall of pressure between bus bars and any point under maximum load. 4.5/104. are the ends of all cables having a sectional area of 0.04

inch and above provided with soldering sockets. Are paper insulated and varnished cambric insulated cables sealed at the ends.

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Founda

HENRY ROSE LIMITED

A. Wilson

DIRECTOR

Electrical Engineers.

Date 10/11/44

COMPASSES.

Minimum distance between electric generators or motors and standard compass

33/4

Minimum distance between electric generators or motors and steering compass.

23 Feb.

The nearest cables to the compasses are as follows:—

A cable carrying Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 6 Amperes 8 feet from standard compass 6 feet from steering compass.

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

Have the compasses been adjusted within _____ feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power feet from steering compass.

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 1 mi degrees on any course in the case of the standard compass, and 1 mi degrees on any course in the case of the steering compass.

HENRY ROSS

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

HENRY ROBB LIMITED

Builder's Signature.

Date. 10/11/44

E. Wilson

DIRECTOR

Is this installation a duplicate of a previous case.

If so, state name of vessel

Plans. Are approved plans forwarded herewith.

If not, state date of approval

6-4-44. (Rom. App. Plane)

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

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

The electrical equipment of this vessel has been fitted on board under special supervision and in accordance with the approved plans and Admiralty specifications. Tested under working conditions and found satisfactory. The materials and workmanship are good.

Noted

Luc

4.12.44

2	100.	220.	455.	600.	oil engine.	oil	oil
1	50.	100.	200.	400.			

Total Capacity of Generators.....230. ✓ Kilowatts.

Apr. 43 0 0 100. 2 37/072. 455 422. 16/ 16.
 The amount of Fee ... £ 86 : : When applied for, 37/072. 246 16.
 18. 6. 43 0 0 30. 2 19/053. 137. 191
 Travelling Expenses (if any) £ : : When received. 19/053. 137. 191
 Surveyor to Lloyd's Register of Shipping

ADMIRALTY A/ID. rendered from
London 19. 1. 48

Committee's Minute **GLASGOW** 21 NOV 1944

FRI. 5 JAN 1945

Assigned. Transmit to Warrington // See FE meeting rpt.