

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report... 15 Nov. 44. When handed in at Local Office... 20. 11. 44. Port of... GLASGOW. Received at London Office... 24 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 TRG. "MEDIATOR". Tons { Gross... Net... }

built at... LEITH. By whom built... MESSRS. HENRY ROBB. LTD. Yard No... 335. When built... 1944.

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. [initials] E.S.D. [initials] C. [initials] Sub. Sig. [initials]

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

Direct or Alternating Current, Lighting... Prime Movers, [initials]

Generators, are they compound wound... are they level compounded under working conditions... [initials]

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

connected 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

of the 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

in 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... near generator.

CRIPSTAN... 1 25 1 19/083 97 118 165 Rubber L.L.

are 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... of synthetic insulating material is it an Approved Type... if of

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

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

not and earth lamps, voltmeters, etc... locking of screws and nuts... labelling of apparatus and fuses... fuses on the "dead"

of synthetic... Description of Main Switchgear for each generator and arrangement of equaliser switches... STANDBY L.T. Ph. Circuit Breaker. [initials] acting as equaliser.

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

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

is the ammeter connected on the pole opposite to the... Earth Testing, state means provided... Earth lamps.

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

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

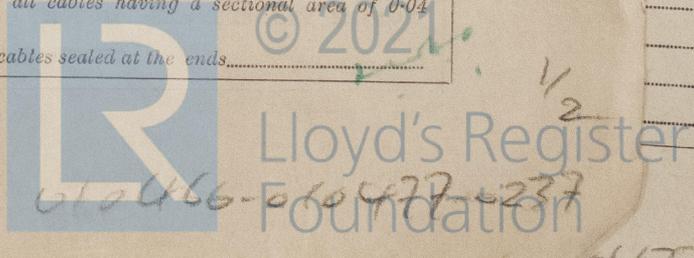
protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current

they operate... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... [initials]

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 lbs. are the ends of all cables having a sectional area of 0.04

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



1/2  
0477



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.

HENRY ROSS LIMITED

*A. Wilson* DIRECTOR

Electrical Engineers.

Date 10/11/44

COMPASSES.

Minimum distance between electric generators or motors and standard compass *33 feet*  
 Minimum distance between electric generators or motors and steering compass *23 feet*  
 The nearest cables to the compasses are as follows:—  
 A cable carrying *1* Ampères *led into* feet from standard compass *led into* feet from steering compass.  
 A cable carrying *6* Ampères *8* feet from standard compass *6* 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 *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 ROSS LIMITED

*A. Wilson* DIRECTOR

Builder's Signature.

Date 10/11/44

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 (Nom. App. Plans)*  
 Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith *Yes*  
 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  
 Survey and in accordance with the approved plans and Admiralty specifications.  
 Tested under working conditions and found satisfactory.  
 The materials and workmanship are good.*

Noted  
*JRM*  
 4.12.44

2	100.	220.	455.	600.	oil engine.	oil	0.2900 1000.
1	30.	100.	137	1000			

Total Capacity of Generators *230* Kilowatts.  
 The amount of Fee ... *86* £  
 Travelling Expenses (if any) £  
 ADMIRALTY A19. 19. 44  
 London 19. 1. 45  
*JRM*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 21 NOV 1944**  
 Assigned *Transmit to Walsingham // see FE meeting rpt.*  
**FRI. 5 JAN 1945**

5m. 4. 50. - Transfer. (MADE AND PRINTED IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

