

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

5 AUG 1943

Received at London Office 30 AUG 1943

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

No. in Survey held at Gainsborough Date, First Survey 8. 12. 42 Last Survey 14. 6. 19 43
 Reg. Book. (Number of Visits) 5

on the T.R.V.5 (Perfect running vessel) Tons { Gross 195.
 Net 60.

Built at Gainsborough By whom built J.S. Watson Ltd Yard No. 1535 When built 1943

Owners The Admiralty Port belonging to.....

Electrical Installation fitted by Sunderland Forge, Co Ltd Contract No. When fitted 1943

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

Have plans been submitted and approved Yes System of Distribution two wire Voltage of supply for Lighting 220

Heating no Power Yes Direct or Alternating Current, Lighting DC Power DC 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 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 Yes Position of Generators 15KW port side of engine room, 35KW starboard
side of engine room 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 Yes Switchboards, where are main switchboards placed Engine room port side

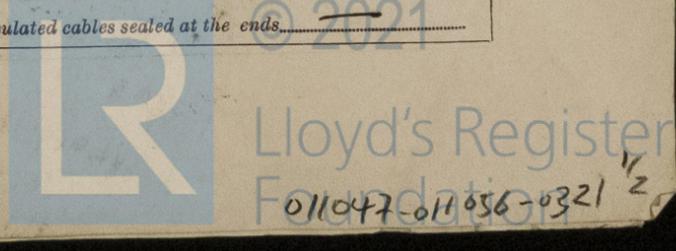
are they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam
 and oil Yes, if situated near unprotected combustible material state distance from same horizontally..... and vertically....., what insulation
 material is used for the panels "Sindamsa", if of synthetic insulating material is it an Approved Type Yes, if of
 semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule..... 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 Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole,
quick break knife switches and double pole fuses

and for each outgoing circuit Double pole quick break knife switches and double pole
fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard two
 ammeters two 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 Lamps coupled to earth via switches & fuses

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

Cables, 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 3V, are the ends of all cables having a sectional area of 0.04
 square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends.....



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.

J. Barber
P/O The Sunderland Forge & Eng. Co. Ltd. Electrical Engineers. Date *June 8th 1943*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *25'*

Minimum distance between electric generators or motors and steering compass *20'*

The nearest cables to the compasses are as follows:—

A cable carrying *1* Ampères *inside* feet from standard compass *5'* feet from steering compass.

A cable carrying *1* 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 *Yes*

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.

J. S. WATSON (GAINSBOROUGH) LTD

J. S. Watson

Builder's Signature.

Date *9th June 1943*

Governing Director.

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *T.R.V.1*

Plans. Are approved plans forwarded herewith *No* If not, state date of approval *17.11.41*

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 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
J.P.
16/8/43

Total Capacity of Generators *18½* Kilowatts.

The amount of Fee ... £ *38:10* : When applied for, **5 AUG 1943**

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

A.H. Cornell
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI 20 AUG 1943*

Assigned *see minute on J.S. Rpt*

5m. 4. 3m. Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

