

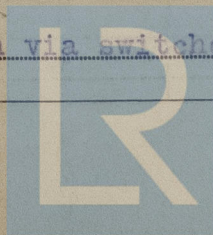
REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report.....19..... When handed in at Local Office.....23 OCT 1946.....19..... Port of.....HULL.....
 No. in Survey held at.....Gainsborough.....Date, First Survey.....27.9.45.....Last Survey.....17.10.1946.....
 Reg. Book.....(Number of Visits.....6.....)
 on the....."T.R.V. 8". (Torpedo Recovery Vessel).....Tons {Gross.....123.....
 Net.....59.....
 Built at.....Gainsborough.....By whom built.....J.S. Watson (Gainsborough) Ltd.....Yard No.....1551.....When built.....1946.....
 Owners.....The Admiralty.....Port belonging to.....-.....
 Electrical Installation fitted by.....Sunderland Forge & Co. Ltd.....Contract No.....-.....When fitted.....1946.....
 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.....D.C..... Power.....D.C..... If Alternating Current state frequency.....-..... Prime Movers,
 has the governing been tested and found efficient when the whole 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.....15 KW port side of engine room, 3¹ KW switchboard.....
 is 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....."Syndanyo"....., 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 and fuses.....



Admiralty pattern fittings

and where are the controlling switches fitted on mess deck above, are all fittings suitably ventilated Yes,
are all fittings and accessories constructed and installed as per Rule Yes Searchlight Lamps, No. of 1-6", whether fixed or portable portable
Yes, are their fittings as per Rule Yes Heating and Cooking, is the general construction as per Rule -,
are the frames effectually earthed -, are heaters in the accommodation of the convection type -. Motors, are all motors constructed and
installed as per Rule Yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,
steam and oil Yes, if situated near unprotected combustible material state minimum distance from same horizontally - and vertically -
Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for motors under
100 BHP intended for essential services been supplied and the results found as per Rule Yes Control Gear and Resistances, are they constructed and
fitted as per Rule - Lightning Conductors, where required are they fitted as per Rule Yes Ships carrying Oil having a Flash Point
less than 150° F. Have all the special requirements of the Rules for such ships been complied with -, are all fuses of the cartridge type -
are they of an approved type - If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof
type - Spare Gear, if the vessel is for open sea service have spares been provided as per Rule Yes, are they suitably stored in dry
situations Yes Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory Yes

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ... No.	1	15	220	68	1000	Diesel engine		
	2	30	220	15.8	1400	" "		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	No. 1. 15	1	19/.064	68	83	90	V. I. R.	I. C. A. P. 6189A
" " EQUALISER	No. 2. 36	1	7/.036	15.8	24	120	"	" " 6193A
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR ...								

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Windlass	1	7	1	7/044	28	31	240	V.I.R.	L.C. A.P. 6192A
Winch	1	9	1	7/064	25	46	210	"	" " 6191A
Steering gear	1	4	1	7/036	17	24	90	"	" " 6193A
Impeller motor	1	4	1	7/044	2.5	5	30	"	" " 6194A
12" engine room fan	1	1	1	7/029	4.0	15	72	"	" " 6194A
7" torpedo hold fan	1	1	1	"	2.5	15	88	"	" " " "
5" accommodation fan	1	2	1	"	1.0	15	168	"	" " " "
5" " "	1	2	1	"	1.0	15	90	"	" " " "

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
for Messrs The Sunderland Forge & Eng Co Ltd

Electrical Engineers.

Date *Sept 16th 46*

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 *7* Ampères *inside* feet from standard compass *5'* feet from steering compass.

A cable carrying *7* 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 *18th Sept 1946*

General Manager

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *HT B V 21*

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 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

Thru 25.11.46

Total Capacity of Generators *184* Kilowatts.

The amount of Fee ... £ *33* : *10* : *0*

When applied for,

19

Travelling Expenses (if any) £ : : When received,

19

R. E. Cornell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 22 NOV 1946*

Assigned *See F.E. mch. rpt.*



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2m.10.38.—Transfer. (MADE IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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