

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

10 JUL 1942

Received at London Office.....

Date of writing Report... 21. 5. 19. 42. When handed in at Local Office... 8 JUL 1942 Port of... HULL

No. in Survey held at... Hull. Date, First Survey... 24. 4. 42. Last Survey... 19. 5. 19. 42. (Number of Visits... 8.)

Reg. Book. on the... Ship Tug EMPIRE FAIRY. Tons { Gross... 276 Net... 72

Built at... Selby By whom built... Cochrane & Sons Ltd Yard No... 1243 When built... 1942-5.

Owners... The Ministry of War Transport Port belonging to...

Electrical Installation fitted by... Wm Broady & Son Ltd Contract No... When fitted... do

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

Have plans been submitted and approved... Yes System of Distribution... Parallel Circuit from 2 Wires Voltage of supply for Lighting... 110

Heating... 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 a

trip switch as per Rule... Yes 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... One only, 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... Engine room

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, adjacent to generators

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... Vmdanyo, 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...

D.P. Switches & fuses.

and for each outgoing circuit... D.P. Switches & fuses.

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

ammeters... One 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... Earth lamps & switches

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... Yes are the reversed current

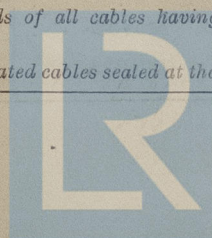
protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current

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... Yes

state maximum fall of pressure between bus bars and any point under maximum load... 2 1/2 volt. are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... None Are paper insulated and varnished cambric insulated cables sealed at the ends... Yes



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 ✓. Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships ✓. Are the cables lead covered as per Rule ✓. 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 tested and found satisfactory Yes.

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Poles.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	4 1/2	Gne	7/064	41	46	20	V.I.R.	L.C + Arm. g
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

[illegible]

MOTOR CABLES.

[illegible]

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.

Electrical Engineers.

Date 11th May 1942.

COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

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

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Have the compasses been adjusted with and without the electric installation at work at full power

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

Builder's Signature.

Date

Is this installation a duplicate of a previous case. no If so, state name of vessel 14. of Class.

Plans. Are approved plans forwarded herewith. no If not, state date of approval 16. 4. 42

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.)

This ~~electrical~~ installation has been fitted in accordance with the Rules, the approved plans & the Specification under the Society's Special Survey. The workmanship & materials are good & when tested as prescribed in the Rules & tested under working conditions it was found satisfactory in every respect.

Noted

Shur

28. 7. 42

Total Capacity of Generators 4 1/2 Kilowatts.

The amount of Fee £ 3 : 0 : 15 + 25% p. spec

When applied for, 8 JUL 1942

Travelling Expenses (if any) £ : : 19

When received.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRL 14 AUG 1942

Assigned

See Hul. No. 51664



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