

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

27 JAN 1944

Received at London Office

Date of writing Report... 8th Jan 1944 When handed in at Local Office... 24. 1. 1944 Port of... GLASGOWNo. in Survey held at... PORT GLASGOW Date, First Survey... 22nd Nov 1943 Last Survey... 7th JANUARY 1944
Reg. Book.

(Number of Visits... 2...)

39937 on the 'TREVANION'

Built at... PORT GLASGOW By whom built... MESSRS LITHGOWS LTD Yard No. 985 When built... 1943

Owners... HAIN S.S. CO LTD Port belonging to... LONDON

Electrical Installation fitted by... MESSRS SUNDERLAND FORGE & ENGINEERING CO LTD Contract No. 985 When fitted... 1943

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F. Yes E.S.D. ONLY Gy.C. — Sub.Sig. —

Have plans been submitted and approved... Yes System of Distribution... Two wire 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... 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... In 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... In engine room near 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... Chindango, 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...

1 - 150 AMPERE D.P. Knife pattern switch with fuses.

and for each outgoing circuit... 60 AMPERE + 30 AMPERE D.P. change-over switches with fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Yes Instruments on main switchboard... 2

ammeters... 2 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, 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... W.E.

state maximum fall of pressure between bus bars and any point under maximum load... 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... Yes

LIGHTING 3.0 VOLTS.
POWER 4.5 VOLTS.

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PARTICULARS OF GENERATING PLANT.								
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	2	15	110	136.5	850	STEAM ENGINE		
EMERGENCY ...								
ROTARY TRANSFORMER								

PARTICULARS OF GENERATING PLANT.

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 ...	2 ✓	15	110	136.5	880	STEAM ENGINE ✓		
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

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 GENERATORS	15	1	19/064	136.5	135	50	V.C.	L.C.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	...	...	...	...	...	...	...	...
NAVIGATION LIGHTS	...	...	...	...	...	...	...	...
LIGHTING AND HEATING	...	...	...	...	...	...	...	...
SALOON D.B.	1	7/064	15	46	✓	486	W.E.	In steel pipe
ENGINEERS LIGHTING D.B. PORT.	2	1/064	12.6	20	✓	130	W.E.	In steel pipe
ENGINEERS LIGHTING D.B. STBD	1	7/044	22	31	✓	10	W.E.	L.C.
ENGINE ROOM LIGHTING D.B.	1	7/036	14	24	✓	10	W.E.	L.C.
ENGINE ROOM POWER D.B.	1	7/036	13	24	✓	80	W.E.	L.C.
FORWARD CARGO D.B.	1	7/044	15	31	✓	70	W.E.	L.C.
CREWS QUARTERS & AFT CARGO	1	7/064	61	75	✓	175	Y.G.	L.C.
CREWS QUARTERS LIGHTING D.B.	4	1/064	15.6	40	✓	274	W.E.	In steel pipe
	1	7/064	30	46	✓	258	W.E.	In steel pipe
	1	7/064	16	46	✓	174	W.E.	In steel pipe

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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 14/1/44

COMPASSES.

Minimum distance between electric generators or motors and standard compass

30 feet.

Minimum distance between electric generators or motors and steering compass

26 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 12.6 Ampères 9 feet from standard compass 7 feet from steering compass.

A cable carrying 23 Ampères led into ~~from~~ standard compass led into ~~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 any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

LITHGOWS LIMITED

Builder's Signature.

Date 17/1/44.

Is this installation a duplicate of a previous case No. If so, state name of vessel

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

12/8/43

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, tested under working conditions and found satisfactory. The materials and workmanship are good.

Noted

L.P.

15/2/44.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee £ 22 : 10 : When applied for,

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

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 25 JAN 1944

Assigned Transmit to Wokingham.



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