

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

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Date of writing Report... 8th JANUARY 1944 When handed in at Local Office... 11.1.1944 Port of... GLASGOW

No. in Survey held at... PORT GLASGOW Date, First Survey... 15th Oct 1943 Last Survey... 5th JANUARY 1944 Reg. Book. (Number of Visits... 11)

39318 on the... PROSPECTOR Tons { Gross... 6202 Net... 3663

Built at... PORT GLASGOW By whom built... Messrs LITHGOWS LTD. Yard No... 988 When built... 1943

Owners... CHARENTE S.S. CO LTD Port belonging to... LIVERPOOL

Electrical Installation fitted by... CAMPBELL & FISHERWOOD LTD Contract No... 988 When fitted... 1943

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

Have plans been submitted and approved... Yes System of Distribution... Single wire hull return 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... Sindampo, 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 - 200 AMP. S.P. Knife pattern switch with fuses.

and for each outgoing circuit... 75 AMP. S.P. C.O 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...

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...

LIGHTING. 220 VOLTS.
POWER. 110 VOLTS.



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with insulating compound _____ or waterproof insulating tape _____. Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are cables laid under machines or floorplates _____, if so, are they adequately protected _____.

Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit _____. State how the cables are supported and protected Mains: L.C. cables in steel pipe.

Machinery Space: L.C. S.W.A. cable clipped to stichboard
Accommodation: L.C.B. cable clipped to woodwork

Are all lead sheaths, armoring and conduits effectually bonded and earthed Yes. Refrigerated chambers, are the cables and fittings as per Rule _____.

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed Yes and with what material Lead. Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes. Emergency Supply, state position _____ and method of control _____.

Navigation Lamps, are they separately wired Yes controlled by separate _____ pole switches Yes and fuses Yes. Are the switches and fuses in a position accessible only to the officers on watch Yes, is an automatic indicator fitted Yes. Secondary Batteries, are they constructed and fitted as per Rule _____, are they adequately ventilated _____ what is the battery capacity in ampere hours _____.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present _____, if so, how are they protected _____ and where are the controlling switches fitted _____, are all fittings suitably ventilated Yes, are all fittings and accessories constructed and installed as per Rule Yes. Searchlight Lamps, No. of 1, whether fixed or portable _____.

Portable Searchlight Projector, 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 _____.

Are motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment _____ 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 _____.

Control Gear and Resistances, are they constructed and fitted as per Rule Yes. Lightning Conductors, where required are they fitted as per Rule _____ 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 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.

DESCRIPTION OF GENERATOR.	No. of	RATED AT			Revs. per Min.	DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.			Fuel Used.	Flash Point of Fuel.
MAIN ...	2	15	110	136	450	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 GENERATOR#	15	1	37/072	136	152	12	RUBBER	L.C.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

DESCRIPTION.	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.			
AUX. SWITCHBOARDS AND SECTION BOARDS ...	1	19/064	68	83	4	RUBBER	L.C.
ENGINE-ROOM & SEARCHLIGHT	1	19/064	47	83	5	RUBBER	L.C.
FORW. & AFT CARGO	1	7/064	38	46	6	RUBBER	L.C.
GYRO COMPASS & REFRIGERATOR	1	7/064	29	46	6	RUBBER	L.C.
AFT & MIDSHIP ACCOMMODATION	1	7/064					

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS ...	1	7/044	15	31	60	RUBBER	L.C.B.
NAVIGATION LIGHTS ...	1	7/029	5.6	15	60	RUBBER	L.C.B.
LIGHTING AND HEATING ...							
SALOON & NAVIGATION	1	7/064	23	46	126	RUBBER	L.C.B.
FORWARD CARGO	1	7/064	22.7	31	216	RUBBER	L.C.B.
AFT CARGO	1	7/036	20	24	108	RUBBER	L.C.B.
MIDSHIP ACCOMMODATION	1	7/036	17.8	24	48	RUBBER	L.C.B.
AFT ACCOMMODATION	1	7/029	11.7	15	162	RUBBER	L.C.B.
ENGINE-ROOM	1	7/044	28.4	31	4	RUBBER	L.C.B.
SEARCHLIGHT (SUEZ CANAL PROJECTOR)	1	7/064	40	46	150	RUBBER	L.C.B.
GYRO COMPASS (WIRING ONLY)	1	7/036	12	24	150	RUBBER	L.C.B.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
DOMESTIC REFRIGERATOR	1	3	1	7/044	26	31	66	RUBBER	L.C.B.
FORWARD Aft HOIST	1	3	1	7/044	26	31	90	RUBBER	L.C.
AFT Aft HOIST (WIRE ONLY)	1		1	7/044		31	66	RUBBER	L.C.

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.

CAMPBELL & FISHERWOOD LTD.

Electrical Engineers.

Date

10/1/44

Ben Stewart
 Director

COMPASSES.

Minimum distance between electric generators or motors and standard compass *Twelve feet.*

Minimum distance between electric generators or motors and steering compass *Ten feet.*

The nearest cables to the compasses are as follows:—

A cable carrying *5.6* Ampères *9* feet from standard compass *7* feet from steering compass.

A cable carrying *2.3* Ampères *led into* ~~feet from~~ standard compass *led into* ~~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 *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

10/1/44

John McFulloch
 Secretary

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 *19th November 1943*

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.M.
2/1/44

Total Capacity of Generators *30* Kilowatts.

The amount of Fee ... £ *22 : 10 :* When applied for, *as per*

Travelling Expenses (if any) £ *- : 15 :* When received, *19*

J. M. Gardiner
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 11 JAN 1944*

Assigned

5th Ed. 1938.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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