

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 23rd May 1940 When handed in at Local Office 19 Port of Bristol Received at London Office JUN -5 1940
 No. in Survey held at Bristol Date, First Survey 15 April Last Survey 16 May 1940
 Reg. Book. 17913 on the s.s. "Peter Goliffe" (Number of Visits 4)
 Tons { Gross 80
 Net NIL
 Built at Bristol By whom built Chas. Hill & Sons Ltd. Yard No. 274 When built 1940
 Owners Poole Harbour Commissioners Port belonging to Poole
 Electric Light Installation fitted by Chas. Hill & Sons Ltd. Contract No. 277 When fitted 1940
 Is the Vessel fitted for carrying Petroleum in bulk No.

System of Distribution Twin wire system, two separate cables run in pairs.
 Pressure of supply for Lighting 110 volts, Heating ✓ volts, Power ✓ volts.
 Direct or Alternating Current, Lighting Direct Power ✓
 If alternating current system, state frequency of periods per second ✓
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off ✓
 Generators, do they comply with the requirements regarding rating Yes, are they compound wound Yes
 are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator ✓
 Where more than one generator is fitted are they arranged to run in parallel ✓, is an adjustable regulating resistance fitted in series with each shunt field ✓
 Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes. Are the lubricating arrangements of the generators as per Rule Yes.
 Position of Generators Starboard side Engine Room, is the ventilation in way of the generators satisfactory Yes, are they clear of all inflammable material Yes.
 if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators ✓ and ✓, are the generators protected from mechanical injury and damage from water, steam or oil ✓, are their axes of rotation fore and aft Yes.
 Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes, are the prime movers and their respective generators in metallic contact Yes.
 Main Switch Boards, where placed Starboard side Engine Room.
 If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard ✓
 Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards Wood Locker 3'-0" below board. and ✓, are they constructed wholly of durable, non-ignitable non-absorbent materials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework ✓, and is the frame effectively earthed Yes. Are the fittings as per Rule regarding:— spacing or shielding of live parts Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, proportion of omnibus bars Yes, individual fuses to voltmeter, pilot or earth lamp Yes, connections of switches Yes.
 Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Double Pole knife switch & fuses.
 Instruments on main switchboard one ammeters one voltmeters ✓ synchronising device for paralleling purposes ✓
 Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system 2 earth lamps.
 Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes.
 Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes.



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Cables: Single are the cables insulated and protected as per Tables IV, V, XI or XIII of the Rules Yes.

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load ✓

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets None.

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound ✓

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage Yes.

Support and Protection of Cables, state how the cables are supported and protected Run in Conduit & lead covered in accommodation.

If cables are run in wood casings, are the casings and caps secured by screws ✓, are the cap screws of brass ✓, are the cables run in separate grooves ✓. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII Yes.

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements ✓

Joints in Cables, state if any, and how made, insulated, and protected ✓

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes.

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed Yes. state the material of which the bushes are made Lead.

Earthing Connections, state what earthing connections are fitted and their respective sectional areas None fitted.

are their connections made as per Rule ✓

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule ✓

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven None.

Navigation Lamps, are these separately wired Yes, controlled by separate switch and separate fuses Yes, are the fuses double pole Yes, are the switches and fuses grouped in a position accessible only to the officers on watch Yes, has each navigation lamp an automatic indicator as per Rule Yes.

Secondary Batteries, are they constructed and fitted as per Rule None.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight Yes, are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected No.

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected No.

how are the cables led ✓

where are the controlling switches situated ✓

Searchlight Lamps, No. of One, whether fixed or portable Portable, are their fittings as per Rule Yes.

Arc Lamps, other than searchlight lamps, No. of ✓, are their live parts insulated from the frame or case ✓, are their fittings as per Rule ✓.

Motors, are their working parts readily accessible ✓, are the coils self-contained and readily removable for replacement ✓, are the brushes, brush holders, terminals and lubricating arrangements as per Rule ✓, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material ✓, are they protected from mechanical injury and damage from water, steam or oil ✓, are their axes of rotation fore and aft ✓, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type ✓, if not of this type, state distance of the combustible material horizontally or vertically above the motors ✓ and ✓.

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule ✓.

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule ✓.

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings ✓.

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office ✓.

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	...	2.0	110	18.2	1250	Steam Engine	✓	✓	
AUXILIARY	...								
EMERGENCY	...								
ROTARY TRANSFORMER	...								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR	two	.0225	4	.064	16	92	12'	V. I. R.	Conduit.
EQUALISER CONNECTIONS	✓								
AUXILIARY GENERATOR	✓								
EMERGENCY GENERATOR	✓								
ROTARY TRANSFORMER	✓								
ENGINE ROOM	two	.0020	3	.029	1	15.6	30'	V. I. R.	Conduit.
BOILER ROOM	"	"	"	"	0.5		"	"	"
AUXILIARY SWITCHBOARDS									
ACCOMMODATION	two	.0020	3	.029	2		30'	Rubber	Lead covered.
WIRELESS	two	.0045	4	.029	10	36.4	100'	V. I. R.	Conduit.
SEARCHLIGHT	"	.0020	3	"	0.5	15.6	20'	Rubber.	Lead covered
MASTHEAD LIGHT	"	"	"	"	"	"	"	"	"
SIDE LIGHTS	"	"	"	"	"	"	"	"	"
COMPASS LIGHTS	"	"	"	"	"	"	"	"	"
POOR LIGHTS	"	"	"	"	"	"	"	"	"
CARGO LIGHTS	"	"	"	"	"	"	"	"	"
ARC LAMPS	"	"	"	"	"	"	"	"	"
HEATERS	"	"	"	"	"	"	"	"	"

MOTOR CONDUCTORS.										
DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP										
MAIN BILGE LINE PUMPS										
GENERAL SERVICE PUMP										
EMERGENCY BILGE PUMP										
SANITARY PUMP										
CIRC. SEA WATER PUMPS										
CIRC. FRESH WATER PUMPS.										
AIR COMPRESSOR										
FRESH WATER PUMP										
ENGINE TURNING GEAR...										
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP...										
WINDLASS										
WINCHES, FORWARD										
WINCHES, AFT										
STEERING GEAR—										
(a) MOTOR GENERATOR...										
(b) MAIN MOTOR										
WORKSHOP MOTOR										
VENTILATING FANS										

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.

CHARLES HILL & SONS, LTD.

Alan W. Dech Electrical Engineers.

Date *3rd June 1940*

DIRECTOR.

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass *25' - 0"*

The nearest cables to the compasses are as follows:—

A cable carrying *0.5* Ampères *1' - 0"* feet from standard compass feet from steering compass.

A cable carrying Ampères feet from standard compass 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 degrees on course in the case of the standard

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

CHARLES HILL & SONS, LTD.

Alan W. Dech

Builder's Signature.

Date *3rd June 1940*

DIRECTOR.

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

General Remarks (State quality of workmanship, opinions as to class, &c.)

The electrical installation has been fitted under Special Survey and in accordance with the Rule requirements. The materials and workmanship have been found good.

Upon completion the installation examined under full working conditions, found satisfactory, and is eligible for notation in the Register Book.

Noted
L.H.
10/6/40

Total Capacity of Generators *2.0* Kilowatts.

The amount of Fee £ *3 : 0* : *4-6-* 19.40

Travelling Expenses (if any) £ : : *13/6-* 19.40

J. Brooke Smith
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 14 JUN 1940*

Assigned *See Brs. F.C. 14408*



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