

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

19 JAN 1927

Date of writing Report 18th Jan 1927 When handed in at Local Office 18th Jan 1927 Port of BRISTOLNo. in Survey held at BRISTOL Date, First Survey 22nd Sept Last Survey 22nd Dec 1926
Reg. Book. (Number of Visits 13)on the "CASTLE COMBE" Tons { Gross 454
Net 231

Built at Bristol By whom built G. Hill & Sons, Ltd. Yard No. 251 When built 1926

Owners Ald Shipping Co. Ltd. Port belonging to Bristol

Electric Light Installation fitted by G. Hill & Sons, Ltd. Contract No. When fitted 1926

Is the Vessel fitted for carrying Petroleum in bulk No

System of Distribution Armoured cable run on perforated sheeting. Two wire system.

Pressure of supply for Lighting 12 volts, Heating 220 volts, Power 220 volts.

Direct or Alternating Current, Lighting Direct Power Direct.

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 yes

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 yes

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 Forward starboard side of 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 yes.

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 centre of 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 ✓ 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. One 100 amp. D.P.

Breaker. Four 60 amp. single Pole Breakers + 4 fuses. One 60 amp. + one

100 amp. D.P. switches + fuses.

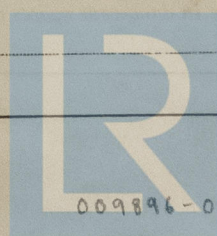
Instruments on main switchboard One ammeters One voltmeters ✓ synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Series.

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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* Used for engine room lights + navigation lights.

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	One	22	220	100	1000	Diesel engine.	Gas Oil	Over 150° F.
AUXILIARY	One	1.8	12	24	1000	Chain drive from main engine.	Diesel Oil	" "
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		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	One	100	19	.083	100 A	118 A	30 ft.	V. I. P.	Conduit.
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR	One	0.2	19	.052	24 A	24 A	90 ft.	V. I. P.	Conduit.
EMERGENCY GENERATOR									
ROTARY TRANSFORMER									
ENGINE ROOM	One	0018	3	.029	6 A	7.8	60 ft.	V. I. P.	Lead covered + armoured.
BOILER ROOM									
AUXILIARY SWITCHBOARDS	One	0.5	19	.052	20	24	60 ft.	V. I. P.	Lead covered + armoured.
ACCOMMODATION									
WIRELESS									
SEARCHLIGHT									
MASTHEAD LIGHT	One	0018	3	.029	4 A	7.8 A	220 ft.	V. I. P.	Lead covered + armoured.
SIDE LIGHTS	One	0018	3	.029	4 A	7.8 A	50 ft.	V. I. P.	Lead covered.
COMPASS LIGHTS	One	0018	3	.029	2 A	7.8 A	20 ft.	V. I. P.	-do-
POOP LIGHTS									
CARGO LIGHTS	One	0018	3	.029	1.4	7.8 A	20 ft.	V. I. P.	Lead covered + armoured.
ARC LAMPS									
HEATERS	One	0.2	19	.052	60.6	74 A	160 ft.	V. I. P.	-do-

3 circuits carrying same.

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		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	One	One	0.2	19	.044	50	59	400 ft.	Rubber	Lead + wire arm.
WINCHES, FORWARD	One	One	0.28	7	.052	24	27	300 ft.	Rubber	-do-
WINCHES, AFT	One	One	0.28	7	.052	24	27	300 ft.	Rubber	-do-
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 Peck

Electrical Engineers.

Date *14th January 1937*

DIRECTOR.

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass *36'-0"*

The nearest cables to the compasses are as follows:—

A cable carrying *50* Amperes feet from standard compass *20* feet from steering compass.

A cable carrying *34* Amperes feet from standard compass *20* feet from steering compass.

A cable carrying *34* Amperes feet from standard compass *20* 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 *no effect*.

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 Peck

Builder's Signature.

Date *14th January 1937*

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, etc.)

This electrical installation has been found under survey, the materials & workmanship are good. It has been tried several times under working conditions with satisfactory results & is eligible in my opinion for notation in the Register Book.

Noted
22/1/37

Total Capacity of Generators *22.8* Kilowatts.

The amount of Fee ... £ *19 : 0 : 0* When applied for, *18th Jan 1937*

Travelling Expenses (if any) £ : : *17.2* When received, *18/2*

John L. Gwynne

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 22 JAN 1937

TUE 4 MAY 1937

Assigned *Su No 13590*



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