

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 11/5/1934 When handed in at Local Office 11/5/1934 Port of Leith Received at London Office 14 MAY 1934

No. in Survey held at Burntisland Date, First Survey 6/3/34 Last Survey 4/5/1934
Reg. Book. on the S/S "ISLAND QUEEN" (Number of Visits 7)

Built at BURNTISLAND By whom built THE BURNTISLAND S.B. CO. LTD. Yard No. 180 When built 1934
Tons { Gross 778.30
Net 429.86

Owners THE LONDON & CHANNEL ISLANDS STEAMSHIP CO. LTD. Port belonging to LONDON.

Electric Light Installation fitted by THE BURNTISLAND SHIPBUILDING CO. LTD. Contract No. 180 When fitted 1934

Is the Vessel fitted for carrying Petroleum in bulk NO

System of Distribution TWO WIRE LEAD & RETURN. *New 2 1/2 kw set fitted 7-24*

Pressure of supply for Lighting 110 volts, Heating — volts, Power — volts *removed*

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 NO To be again tried in London

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

Position of Generators STBR SIDE ENGINE ROOM, are the lubricating arrangements of the generators as per Rule YES

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 NO WOODWORK 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 BOLTED DIRECT TO EARTH, are the prime movers and their respective generators in metallic contact YES

Main Switch Boards, where placed ENGINE ROOM STBR SIDE

If the generators and main switchboard are not placed in the same compartment, is each generator provided with 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 NO WOODWORK 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 SYNDYNO PANEL

and is the frame effectively earthed BOLTED DIRECT TO EARTH. 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 wires YES

, individual fuses to voltmeter, pilot or earth lamp YES, connections of switches YES

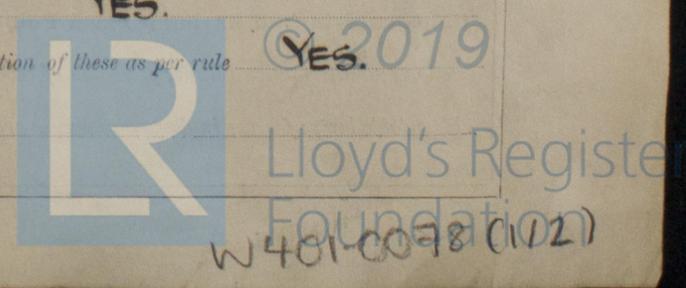
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches ONE DOUBLE POLE MAIN SWITCH 30 AMP. CAPACITY AND THREE 15 AMP. SWITCHES (S.P.) FOR OUTGOING CIRCUIT.

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 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, twin, ~~triple~~ **TWIN** are the cables insulated and protected as per Tables IV or V of the Rules **YES**

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load **3%**

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 **YES**

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 **YES**

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 **SUPPORTED BY CLIPS SECURED WITH SCREWS AND WHERE NECESSARY PROTECTED BY ARMOUR AND LEAD**

If cables are run in wood casings, are the casings and caps secured by screws **YES**, are the cap screws of brass **YES**, are the cables run in separate grooves **YES**. 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 **YES**

Joints in Cables, state if any, and how made, insulated, and protected **NONE**

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 **BRASS EARTH CLIPS FIXED OVER METALLIC SHEATHING AT BEGINNING AND END OF EACH RUN OF CABLE**

are their connections made as per Rule **YES**

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

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven **YES**

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 **YES**

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 **NONE**

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 **YES**

where are the controlling switches situated **YES**

Searchlight Lamps, No. of **YES**, whether fixed or portable **YES**, are their fittings as per Rule **YES**

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

Motors, are their working parts readily accessible **YES**, are the coils self-contained and readily removable for replacement **YES**, are the brushes, brush holders, terminals and lubricating arrangements as per Rule **YES**, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material **YES**, are they protected from mechanical injury and damage from water, steam or oil **YES**, are their axes of rotation fore and aft **YES**, 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 **YES**, if not of this type, state distance of the combustible material horizontally or vertically above the motors **YES** and **YES**

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

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule **YES**

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 **YES**

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

A new dynamo fitted 7.38 7.5 Hw.
See Huc. input 96491.

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	2.5	110	23	600	VERTICAL STEAM ENGINE		
AUXILIARY	ONE	7.5	110	68	328	Steam		
EMERGENCY								
ROTARY TRANSFORMER								

DESCRIPTION.	GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length (Load 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	.0145	7	.052	19.5	37	12	RUBBER	L.C. & W.A.	
EQUALISER CONNECTIONS										
AUXILIARY GENERATOR										
EMERGENCY GENERATOR										
ROTARY TRANSFORMER MOTOR GENERATOR										
ENGINE ROOM	ONE	.007	3	.036	6	12	36	RUBBER	L.C. & W.A.	
BOILER ROOM										
AUXILIARY SWITCHBOARDS										
ACCOMMODATION	ONE	.0045	7	.029	11	18.2	160	RUBBER	W.A.	
ENG'G ACCOMMODATION	ONE	.0030	3	.036	3.5	12	39	RUBBER	W.A.	
NAVIGATION	ONE	.0030	3	.036	2.5	12	180	RUBBER	W.A.	
WIRELESS										
SEARCHLIGHT										
MASTHEAD LIGHT	ONE	.002	3	.029	36	7.8	60	RUBBER	TUBING & L.C.	
SIDE LIGHTS	ONE	.002	3	.029	36	7.8	72	"	L.C.	
COMPASS LIGHTS	ONE	.002	3	.029	36	7.8	36	"	L.C.	
POOP LIGHTS	ONE	.002	3	.029	36	7.8	202	"	L.C.	
CARGO LIGHTS	ONE	.002	3	.029	1.82	7.8	30	"	L.C. & W.A.	
ARC LAMPS										
HEATERS										

DESCRIPTION.	MOTOR CONDUCTORS.									
	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length (Load 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.

FOR THE BURNTISLAND SHIPBUILDING COMPANY LTD.

Melfred Agre

MANAGING DIRECTOR
per 1182

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass 105'-0"

Distance between electric generators or motors and steering compass —

The nearest cables to the compasses are as follows:—

A cable carrying 5 Ampères 7" 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 NIL degrees on ANY course in the case of the standard compass, and — degrees on — course in the case of the steering compass.

FOR THE BURNTISLAND SHIPBUILDING COMPANY LTD.

Melfred Agre

MANAGING DIRECTOR
per 1182

Builder's Signature.

Date

Is this installation a duplicate of a previous case YES If so, state name of vessel LONDON QUEEN.

General Remarks (State quality of workmanship, opinions as to class, &c. This installation has been

efficiently fitted on board in accordance with the rules.

The materials & workmanship are sound & good & the installation was tried under full load & working conditions.

The dynamo governor was not working satisfactorily on trials & it was stated that on the vessel's arrival in London on the 7th inst. this matter would be attended to. (London Surveyors advised)

Total Capacity of Generators 2 1/2 Kilowatts.

The amount of Fee ... £ 5 : 0 : 0 8-5-34

Travelling Expenses (if any) £ ✓ 1-4-34

Chas R. Rowcliffe

Surveyor to Lloyd's Register of Shipping.

TUE. 31 JUL 1934

Committee's Minute FRI. 1 JUN 1934

Assigned

Deferred

Im. 11. 20. — Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minutes.)



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