

No. 98834

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

15 SEP 1927

Received at London Office

When handed in at Local Office *12.8.24* Port of *HULL*

held at *Hull* Date First Survey *May 2nd 1924* Last Survey *Sept 2nd 1924*

Thicknes *Steel Screw Sr. "LEPANTO"* Tons { Gross *6368* Net *4020*

Glasgow By whom built *Russell & Co.* Yard No. *-* When built *1915-11.*

Man's Wilson Line, Ltd. Port belonging to *Hull*

Installation fitted by *Charles B. Building & Eng'g Co. Ltd.* Contract No. *-* When fitted *1924*

Double wire

Lighting *100* volts, Heating *-* volts, Power *100* volts.

Current, Lighting *Direct Current* Power *Direct Current.*

tem, state frequency of periods per second *-*

ernor been tested and found efficient when the whole load is suddenly thrown on or off *Yes*

ply with the requirements regarding rating *Yes*, are they compound wound *Yes*

per cent. *Yes*, if not compound wound state distance between each generator *-*

ator is fitted are they arranged to run in parallel *No*, is an adjustable regulating resistance fitted in *Yes*

clearly marked, and furnished with sockets *Yes*, are they so spaced or shielded that they cannot be accidentally earthed, *Yes*

Are the lubricating arrangements of the generators as per Rule *Yes*

(New) Fore & aft Starboard side of engine room.

the generators satisfactory *Yes*, are they clear of all inflammable material *Yes*

ed 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*

re and aft *Yes*

s and frames of the generating plant efficiently earthed *Yes* are the prime movers and *-*

metallic contact *Yes*

ere placed *Ship's side starboard near generators*

If the generators and main switchboard are not placed in the same compartment, is each generator provided with *-*

as near as possible to the terminals of the generator, additional to that provided on the main switchboard *-*

aced in accessible positions, free from inflammable gases and acid fumes *Yes*

anical injury and damage from water, steam or oil *Yes*, if situated near unprotected *-*

material, state distance of same horizontally from or vertically above the switchboards *-* and *-*

urable, non-ignitable non-absorbent materials *Yes*, is all insulation of high dielectric strength and of *-*

esistance *Yes*, if semi-insulating material is used, are all conducting parts insulated from the slab *-*

r non-hygroscopic insulating material, and the slab similarly insulated from its framework *Yes*

earthed *Yes* Are the fittings as per Rule regarding: - spacing or shielding of live parts *-*

ecessibility of all parts *Yes*, absence of fuses on back of board *Yes*, proportion of omnibus *-*

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

tion of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches *Each*

as double pole switches & fuses. Each outgoing circuit

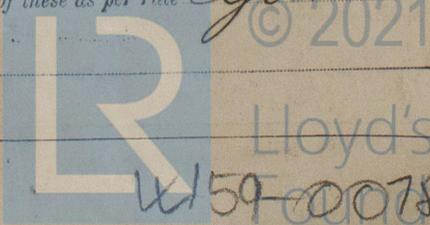
change over switches & double pole fuses.

chboard *2* ammeters *2* voltmeters *-* synchronising device for paralleling purposes. *-*

means are provided at the main switchboard for indicating the state of the insulation of the system *Each lamp.*

Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *Yes*

ion and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *Yes*



Lloyd's Register

W/59 0078/1137

J.B. Single & Twin
Cables: Single, twin, concentric, or multicore *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 *✓*
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 *none.*
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 *All wires clear.*
Support and Protection of Cables, state how the cables are supported and protected *Armoured cable supported by clips & screws.*
 If cables are run in wood casings, are the casings and caps secured by screws *✓*, are the caps screws of brass *✓*, are the cables run in separate grooves *✓*. If armoured and lead covered cables are secured by metal clips, are the clips secured 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 *Mechanical joints.*
Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *Deck tubes & glands.*
Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *none.* state the material of which the bushes are made *none.*
Earthing Connections, state what earthing connections are fitted and their respective sectional areas *Switch board fitted to steel bars connected to main frames. Each wire attached to bars of switch board.* 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
Navigation Lamps, are these separately wired *✓*, controlled by separate switch and separate fuses *✓*, are the fuses double pole *✓*, are the switches and fuses grouped in a position accessible only to the officers on watch *✓*, has each navigation lamp an automatic indicator as per Rule *✓*
Secondary Batteries, are they constructed and fitted as per Rule *✓*
Fittings, are all fittings on weather decks, in storerooms and engine rooms and wherever exposed to drip or condensed moisture, watertight *✓*, 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 *per report*
 are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *per report*
 where are the controlling switches situated *✓*
Searchlight Lamps, No. of *✓*, whether fixed or portable *✓*, are their fittings as per Rule *✓*
Arc Lamps, other than searchlight lamps, No. of *none*, are their live parts insulated from the frame or case *✓*, are their fittings as per Rule *✓*
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 free and not *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 *enclosed.* 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 *yes.*
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.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN (New)	1	15	100	150	300	Steam.		
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current Amps.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
1405	MAIN GENERATOR...		.15	34	.042	136	54	Rubber	Lead covered.
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM		.0225	4	.064	12	100	Rubber	Lead & Armoured
	BOILER ROOM								
	ACCOMMODATION								
	navigation		.0100	4	.036	6	350		
	nos. 4 & 5 between		.0100	4	.036	4	150		
	& No Pump & Lamborn								
	WIRELESS		.01	4	.044	14	300	Rubber	Lead & Armoured
	SEARCHLIGHT								
	MASTHEAD LIGHT								
	SIDE LIGHTS								
	COMPASS LIGHTS								
	POOP LIGHTS								
	CARGO LIGHTS								
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current Amps.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	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	2	.0225	4	.064	H2	150	Rubber	Lead & Armoured

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

FOR EARLE'S
 SHIPBUILDING & ENGINEERING CO. LIMITED.

M. Tyacke
 MANAGER

Electrical Engineers. Date

COMPASSES.

Distance between electric generators or motors and standard compass
 Distance between electric generators or motors and steering compass
 The nearest cables to the compasses are as follows:—
 A cable carrying Ampères 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
 Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted
 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.

at Entry Report

Builder's Signature. Date

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 existing installation remains similar to List Entry report, & a new 15 kilowatt generator, with new switchboard, two ventilating fans, & refrigeratory chamber lights, as specified overleaf.
The additional installation of this vessel has been fitted on board under Special Survey, tried under full load, & working conditions & found satisfactory. The material & workmanship are good.

It is submitted that this vessel is eligible to remain as CLASSED.

J.L.S.
 28/9/27

Total Capacity of Generator *15* Kilowatts.

The amount of Fee ... £ *5:00* When applied for, *1st. 9. 19. 27*

Travelling Expenses (if any) £ When received, *26. 19. 27*

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

Committee's Minute

Assigned *as now*

Im. 127.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

