

Rpt. 13.

No. 7908

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

22 NOV 1948

Received at London Office

Port of **TORQUAY.**

(No. of Visits **Six**)

Tons { Gross. **332**
Net. **117**

When built **1943**

Port belonging to **London**

When fitted

Is vessel equipped for carrying Petroleum in bulk No. Is vessel equipped with D.F. E.S.D. Gy.C. Sub. Sig.

Plans, have they been submitted and approved Yes System of Distribution **Parallel** Const. Voltage of Lighting **220**

Heating **220** Power **220** D.C. or A.C., Lighting **DC** Power **OC** If A.C. state frequency **---**

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted

with a trip switch. --- Generators, are they compound wound Yes, and level compounded under working conditions Yes

if not compound wound state distance between generators. --- and from switchboard. --- Are the generators arranged to run

in parallel. **NO**, are shunt field regulators provided. Yes Is the compound winding connected to the negative or positive pole

positive Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing. **None** Have certificates of

test for machines under 100 kw. been supplied. **No** and the results found as per Rule. ---

Position of Generators **No.1 (Starbd) 25 KW No.2 (Port) 15 KW**

is the ventilation in way of generators satisfactory. Yes are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil. **Wood Vessel** Switchboards, where are main switchboards placed **Starboard Side Engine Room.**

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

steam and oil. Yes, what insulation is used for the panels. **Sindanyo or similar**, 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 construction as per Rule, including locking of screws and nuts. Yes Description of Main Switchgear

for each generator and arrangement of equaliser switches. **Change over DP Switch & DP Fuses (shore or generators) plus one**

change over iron clad DP switch. No.1 & 2 Generators.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. **DP Switches and fuses**

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Yes Instruments on main switchboard. **1**

ammeters. **1** voltmeters. --- synchronising devices. For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection. --- Earth Testing, state means provided. **Earth**

lamps and fuses

Switches, Circuit Breakers and Fuses, are they as per Rule. Adm. Type, are the fuses an Approved Type. ---

make of fuses. ---, are all fuses labelled. Yes If circuit breakers are provided for the generators, at what

overload do they operate. **None**, and at what current do the reversed current protective devices operate. ---

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule. Yes

Cables, are they insulated and protected as per Rule. Yes, if otherwise than as per Rule are they of an Approved Type. ---

state maximum fall of pressure between bus bars and any point under maximum load. **3 volts.**, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets. Yes Are all paper insulated and varnished cambric insulated

cables sealed at the ends. Yes 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 any cables laid under machines or floorplates. **Main to SB**, if so, are they

adequately protected. Yes Are cables in machinery spaces, galleys, laundries, etc., lead covered. Yes or run in conduit. ---

or of the "HR" type. --- State how the cables are supported or protected. **Clipped to trays or wood work.**

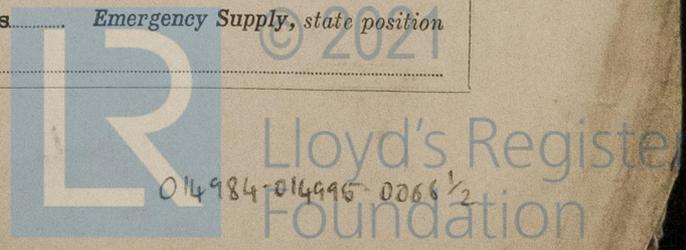
Are all lead sheaths, armouring and conduits effectually bonded and earthed. Yes Are all cables passing through decks and watertight

bulkheads provided with deck tubes or watertight glands. Yes, where unarmoured cables pass through beams, etc., are the holes

effectively bushed. Yes Refrigerated chambers, are the cables and fittings as per Rule. ---

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position

None.



Navigation Lamps, are they separately wired... **Yes**... controlled by separate double pole switches 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**... Is an alternative supply provided... **Yes**...

Secondary Batteries, are they constructed and fitted as per Rule... **None**... are they adequately ventilated... **---**... state 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 any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present... **None**... if so, how are they protected... **---**... and where are the controlling switches fitted... **---**... Are all fittings suitably ventilated... **Yes**...

Searchlight Lamps, No. of... **None**... whether fixed or portable... **---**... are they of the carbon arc or of the filament type... **---**...

Heating and Cooking, is the general construction as per Rule... **Yes**... are the frames effectually earthed... **Yes**... are heaters in the accommodation of the convection type... **Yes**... Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil... **Yes**... Are motors coupled to oil fuel transfer and 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 sea 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... **Yes**... 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 an Approved Cartridge Type... **---**... make of fuse... **---**... 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... **---**... E.S.D., if fitted state maker... **No**... location of transmitter... **---**... and receiver... **---**... Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and 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	MAKER.	RATED AT				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN No. 1	1		25	220	114	1000	Heavy Oil Eng.	Lister
	No. 2	1	15	220	68	1100	" " 3cyl.	Lister
EMERGENCY ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... No. 1	25	1	37/083	114 ✓	314	6	V.C.	L.C.
" " EQUALISER ... No. 2	15	1	19/064	68 ✓	83	40	V.I.R.	L.C.
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.	No.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Heating	1	19/052 ✓	54	64	5	V.I.R.	L.C.
Lighting General	1	19/052 ✓	15	64	5	V.I.R.	L.C.
" Engine Room	1	7/036 ✓	4	24	5	V.I.R.	L.C.
Fans (From Heater Bd.)	1	7/036 ✓	4	24	2	V.I.R.	L.C.
F. Lighting Only	1	7/036 ✓	3	24	120	V.I.R.	L.C.
AM "	1	7/064 ✓	7	46	60	V.I.R.	L.C.
A "	1	7/036 ✓	5	24	60	V.I.R.	L.C.
F Heating	1	7/064 ✓	8	46	32	V.I.R.	L.C.
A "	1	7/064 ✓	5	46	20	V.I.R.	L.C.

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
Navigation Lights	1	7/036 ✓	15	24	80	V.I.R.	L.C.
Lighting and Heating	1	1/044					
		3/029	1 ✓	5	60max	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.		
Steering Motor	1	2	1	7/064 ✓	8.2	46	20	V.I.R.	L.C.
Windlass	1	13.5	1	19/052 ✓	56	64	150	V.I.R.	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.

..... Electrical Contractors. Date.....

COMPASSES.

Have the compasses been adjusted under working conditions..... Yes.

..... Builder's Signature. Date.....

Have the foregoing descriptions and schedules been verified and found correct.....

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

Plans. Are approved plans forwarded herewith..... If not, state date of approval.....

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith.....

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

This installation originally fitted to Admiralty Specification and now altered to the requirements of the present Owners, has been examined throughout found in accordance with the plan approved by the Secretary's letter of the 22.10.48 and found satisfactory when tried under working conditions.

Total Capacity of Generators..... 40 Kilowatts.

The amount of Fee ...	£ 16 : 0	: {	When applied for,
		 19.....
Travelling Expenses (if any) £	:	:	When received,
		 19.....

John H. Hudson
Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... *R*.....

Assigned.....



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