

Rpt. 13.

No. 66313

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 10 DEC 1942

Date of writing Report 28th Nov. 42 When handed in at Local Office S. 12. 42 Port of GLASGOWNo. in Survey held at GLASGOW. Date, First Survey 1942 / 18 / 18 Last Survey 5th November 1942
Reg. Book. (Number of Visits 7)86297 on the S.S. 'EMPIRE GYPSY' Tons { Gross
Net

Built at GLASGOW. By whom built A. & J. INGLIS LTD Yard No. 1175 P When built 1942

Owners MINISTRY OF WAR. TRANSPORT. Port belonging to GLASGOW

Electrical Installation fitted by W. MUIR, GOODFELLOW & CO. LTD. Contract No. 1175 P When fitted 1942

Is vessel fitted for carrying Petroleum in bulk Is vessel equipped with D.F. E.S.D. Gy.C. Sub.Sig.

Have plans been submitted and approved ☒ System of Distribution two wires Voltage of supply for Lighting 110Heating Power ☒ Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency Prime Movers,has the governing been tested and found efficient when the whole load is suddenly thrown on and off ☒ Are turbine emergency governors fitted with atrip switch as per Rule Generators, are they compound wound ☒ are they level compounded under working conditions ☒

if not compound wound state distance between generators and from switchboard Where more than one generator is fitted are they

arranged to run in parallel are shunt field regulators provided ☒ Is the compound winding connected to the negative or positive pole

negative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Have certificates of

test for machines under 100 kw. been supplied ☒ and the results found as per rule ☒ Are the lubricating arrangements and the constructionof the generators as per rule ☒ Position of Generators in engine room......, is the ventilation in way of generators satisfactory ☒ are they clear of inflammable material ☒ if situated

near unprotected combustible material state distance from same horizontally and vertically are the generators protected from mechanical

injury and damage from water, steam and oil ☒ are the bedplates and frames earthed ☒ and the prime movers and generators in metalliccontact ☒ Switchboards, where are main switchboards placed near generatorsare they in accessible positions, free from inflammable gases and acid fumes ☒ are they protected from mechanical injury and damage from water, steamand oil ☒ if situated near unprotected combustible material state distance from same horizontally and vertically what insulationmaterial is used for the panels Sindanp if of synthetic insulating material is it an Approved Type ☒ if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Is the frame effectually earthed ☒Is the construction as per Rule ☒ including accessibility of parts ☒ absence of fuses on the back of the board ☒ individual fusesto pilot and earth lamps, voltmeters, etc. ☒ locking of screws and nuts ☒ labelling of apparatus and fuses ☒ fuses on the "dead"side of switches ☒ Description of Main Switchgear for each generator and arrangement of equaliser switches

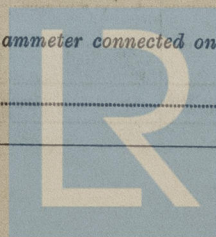
J.P. Switch and Fuse

and for each outgoing circuit J.P. C/o Switch and Fuse

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Instruments on main switchboard 2

ammeters 2 voltmeters synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection Earth Testing, state means provided Earth lamps



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under working conditions..... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule *15*

Cables, are they insulated and protected as per the appropriate Tables of the Rules.....Y.....,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.....3.0812, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets..... Are paper insulated and varnished cambric insulated cables sealed at the exposed ends.....

with insulating compound..... or waterproof insulating tape..... 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...../c....., are cables laid under machines or floorplates....., if so, are they adequately

protected..... Are cables in machinery spaces, galleys, laundries, etc., lead covered..... or run in conduit..... State how the cables are

supported and protected. Mains. L.C.H. & L.C. Machines Spars L.C.H. Accommodative L.C. Clippia

dates to food pump room & forecorte L.C.A in galvanized steel pipe

.....

Are all lead sheaths, armouring and conduits effectually bonded and earthed...../c..... Refrigerated chambers, are the cables and fittings as per Rule.....

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..... and with what material.....lead..... Alternative Lighting, are

the groups of lights in the engine and bower rooms arranged as per Rule..... Emergency Supply, state position.....

..... and method of control.....

Navigation Lamps, are they separately wired...../s..... controlled by separate

double pole switches, yes and fuses yes. Are the switches and fuses in a position accessible only to the officers on watch yes, is an

automatic indicator fitted ✓. Secondary Batteries, are they constructed and fitted as per Rule _____, are they adequately ventilated _____.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof. Yes. Are fittings

installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present.....yes....., if so, how are they protected.....

Manually change pressure in pump, both in accordance with test requirements

and where the controlling switches fitted in accordance, are all fittings suitably ventilated. Yes

are all fittings and accessories constructed and installed as per Rule..... 12..... Searchlight Lamps, No. of....., whether fixed or portable.....

....., are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule.....

are the frames effectually earthed....., are heaters in the accommodation of the convection type..... Motors, are all motors constructed and

installed as per Rule..... and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,

steam and oil....., if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically.....

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 services been supplied and the results found as per Rule..... Control Gear and Resistances, are they constructed and

Lightning Conductors, where required are they fitted as per Rule..... 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, Yes, are all fuses of the cartridge type. Yes

are they of an approved type..... Yes..... If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof

Sp. *Spare Gear, if the vessel is for open sea service have spares been provided as per Rule....., are they suitably stored in dry*

Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory.....

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	6.5	110	59	500	steam engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. & sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	6.5	1	19/052.	59.	64 ✓	40.	Rubber	L.C.
" " EQUALISEE								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR ...								

MAIN DISTRIBUTION CABLES.

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

[illegible]

MOTOR CABLES.

[illegible]

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.

FOR W. MUIR GOODFELLOW & COY LTD

W. Muir Goodfellow Director

Electrical Engineers.

Date 30/11/42

COMPASSES.

Minimum distance between electric generators or motors and standard compass 100 feet

Minimum distance between electric generators or motors and steering compass 90 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 6 Ampères 6 feet from standard compass 6 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 mi degrees on anf course in the case of the standard compass, and mi degrees on anf course in the case of the steering compass.

A. & J. INGLIS LIMITED

Builder's Signature.

Date

Is this installation a duplicate of a previous case Yes If so, state name of vessel S.S. EMPIRE MAIDEN.

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

The electrical equipment of this vessel has been fitted on board under special sur. ref. taken under working conditions and found satisfactory. All the requirements of the approved plans and M.O.W.T specification have been carried out. The materials and workmanship are good.

Noted

10/12/42

Total Capacity of Generators 13 Kilowatts.

The amount of Fee ...	£ <u>13</u> :	When applied for,
<u>M.O.W.T spec.</u>	<u>23-5-0.</u>	<u>4/12/42</u>
Travelling Expenses (if any)	£ :	When received,
		<u> </u> 19.....

S. G. Findlay

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 8 DEC 1942

Assigned See S.G. Report:



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