

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

24 JAN 1947

Date of writing Report 21.1.1947 When handed in at Local Office 21.1.1947 Port of Glasgow

No. in Survey held at Irvine Date, First Survey 9.12.46 Last Survey 10th Jan 1947
Reg. Book.16011 on the S.S. "JARGOON" Tons { Gross 691
Net 311

Built at Paisley By whom built Messrs J. Fullerton & Co. Yard No. - When built 1926

Owners Messrs Wm. Robertson Port belonging to Glasgow

Electrical Installation fitted by Messrs Clyde Dockyard Co. Ltd. Contract No. - When fitted 1944

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

Have plans been submitted and approved Yes System of Distribution Two wire Voltage of supply for Lighting 100

Heating - Power - Direct or Alternating Current, Lighting D.C. Power - If Alternating Current state periodicity - Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off Yes Are turbine emergency governors fitted with a

trip switch as per Rule - Generators, are they compound wound Yes, are they level compounded under working conditions Yes,

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 Yes 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 See General Remarks and the results found as per rule - Are the lubricating arrangements and the construction

of the generators as per rule Yes Position of Generators In Engine room

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes, 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 Yes, are the bedplates and frames earthed Yes, and the prime movers and generators in metallic

contact Yes Switchboards, where are main switchboards placed Near generator

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

and oil Yes, if situated near unprotected combustible material state distance from same horizontally - and vertically - what insulation

material is used for the panels Lindanap, 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 frame effectually earthed Yes.

Is the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fuses

to pilot and earth lamps, voltmeters, etc. Yes, locking of screws and nuts Yes, labelling of apparatus and fuses Yes, fuses on the "dead"

side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches D.P. switch

and fuses.

and for each outgoing circuit D.P. switch and fuses.

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

ammeters 1 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.

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an approved type Yes, are all fuses labelled as

per Rule Yes. If circuit breakers are provided for the generators, at what overload current did they open when tested - are the reversed current

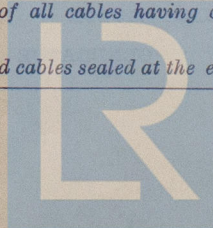
protection devices connected on the pole opposite to the equaliser connection - have they been tested under working conditions, and at what current

did they operate - Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule Yes.

Cables, are they insulated and protected as per the appropriate Tables of the Rules Yes, if otherwise than as per Rule are they of an approved type WE.

state maximum fall of pressure between bus bars and any point under maximum load 1 volt, 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 ends.



Are all lead sheaths, armouring and conduits effectually bonded and earthed..... Yes Refrigerated chambers, are the cables and fittings as per Rule..... 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..... — and with what material..... — Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule..... Yes Emergency Supply, state position..... — and method of control..... —

Navigation Lamps, are they separately wired..... Yes 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..... Yes Secondary Batteries, are they constructed and fitted as per Rule..... —, are they adequately ventilated..... — what is the battery capacity in ampère hours..... —

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

are all fittings and accessories constructed and installed as per Rule Yes. 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

and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water

installed as per Rule..... and placed in well-ventilated compartments within.....

..... if tested near unprotected combustible material state minimum distance from same horizontally..... and vertically..... Arc.....

steam and oil, if situated near unprotected combustible material shall maintain distance from same of not less than 10 feet.

_____ shall be maintained from a position accessible in the event of fire in the pump compartment.

motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the P-1

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... Have certificates of test for motors of 100 BHP and over been submitted.....

Central Gear and Resistances are they constructed and

100 BHP intended for essential services been supplied and the results found as per Rule..... Control Gear and Resistances, are they constructed and
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 Ships carrying Oil having a Flash Point

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 the cartridge type.....

are they of an approved type..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such spaces.....

ships..... Are the cables lead covered as per Rule..... Spare Gear, if the vessel is for open sea service have spares been provided in 1

Rule....., are they suitably stored in dry situations.....

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 ...	1	2.5	100	25	520	Steam Engine	-	-
EMERGENCY ...						Handwritten text	Handwritten text	Handwritten text
ROTARY TRANSFORMER								

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. or sq. mm.	In the Circuit.	Gale.			
MAIN GENERATOR	25	1	4/0-64	25	46	12	V.I.R.	Conduit
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

[illegible][illegible][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.

Thomas Drape Electrical Engineers.

Date *15/1/47*

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass..... *130 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *0.4* Amperes *led into* feet from steering compass.

A cable carrying *3.5* Amperes *6* feet from steering compass.

A cable carrying Amperes 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 degrees on course in the case of the standard compass; and *Nil* degrees on *Any* course in the case of the steering compass.

Builder's Signature..... Date *15/1/47*

Is this installation a duplicate of a previous case..... *No* If so, state name of vessel

Plans. Are approved plans forwarded herewith..... *No* If not, state date of approval..... *4/1/47*

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

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

The electrical installation, consisting of a reconditioned generator, manufactured by Messrs D & J Allan, Liverpool, No 29447, 100V 25A, 2.5 kW, 520 r.p.m., a reconditioned switchboard, and lighting circuits, has been installed under Special Survey, tried under full working conditions and found satisfactory. The materials and workmanship are good.

Total Capacity of Generators..... *2½* Kilowatts.

The amount of Fee £ *5 : 0* :
Travelling Expenses (if any) £ *1 : 5* :
When applied for, *2.1 JAN 1947*
When received,19.....

B. Daffner
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned.....
GLASGOW 21 JAN 1947
SEE ACCOMPANYING MACHINERY REPORT.