

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office...

Date of writing Report 29TH APRIL 1946 When handed in at Local Office 4. 5. 46 Port of GLASGOW

No. in Survey held at GREENOCK Date, First Survey 15TH MARCH Last Survey 19TH APRIL 1946
Reg. Book. (Number of Visits.....) 295

16574 on the 'EMPIRE LOLA' Tons {Gross.....
Net.....

Built at GREENOCK By whom built G. BROWN & CO (MARINE) LTD Yard No. 236 When built 1946

Owners MINISTRY OF WAR TRANSPORT Port belonging to GREENOCK

Electrical Installation fitted by J. WILLIS & SONS LTD PORT GLASGOW Contract No. 236 When fitted 1946

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 WIRE Voltage of supply for Lighting 110

Heating..... Power NO Direct or Alternating Current, Lighting D.C. Power D.C. 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 NO, 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 LONDON LETTER DATED 15TH APRIL 46 and the results found as per rule..... Are the lubricating arrangements and the construction

of the generators as per rule YES Position of Generators STARBOARD SIDE 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 GENERATORS

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 SINDANYO, 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. SWITCHES AND FUSES

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

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

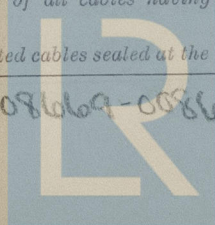
did they operate..... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule YES

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 W.E.

state maximum fall of pressure between bus bars and any point under maximum load 6.6 Volts are the ends of all cables having a sectional area of 0.04

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

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Foundation

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	10	110	91	550	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. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	10	1	10/064	91	135	20	Y.C.	L.C.
" " EQUALISER								
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.

John Willis & Son

Per A. M. Willis (Partner)

Electrical Engineers.

Date 30 April 1946

COMPASSES.

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

Minimum distance between electric generators or motors and steering compass. SIXTY-FOUR FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 3.6 Ampères 10 feet from standard compass 6 feet from steering compass.

A cable carrying 1.36 Ampères LED INTO feet from standard compass LED INTO 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 Nil degrees on Any course in the case of the steering compass.

GEORGE BROWN & CO. (MARINE) LTD.

Builder's Signature.

Date 30/4/46

Director

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

Plans. Are approved plans forwarded herewith. No If not, state date of approval. 21/3/45 REF. LETTER FROM CASHMAN & SONS LTD.

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith. No. SEE LONDON LETTER DATED 15/4/45

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 Survey tested under working conditions and found satisfactory. All the requirements of the approved plans and Ministry of War Transport Specification have been carried out. The materials and workmanship are good.

Noted

HKM 13.5.46

Total Capacity of Generators. 20 Kilowatts.

The amount of Fee ... £ 17 : 10 :
SPECIFICATION Fee ... £ 4 : 7/6
Travelling Expenses (if any) £ - : 15 :

When applied for,

When received,

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

GLASGOW 2 MAY 1946

SEE ACCOMPANYING MACHINERY REPORT



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