

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 29 NOV 1944

Received at London Office.

Date of writing Report 16TH NOVEMBER 1944 When handed in at Local Office 16TH NOVEMBER 1944 Port of GLASGOW

No. in Survey held at PORT GLASGOW Date, First Survey 17 AUGUST Last Survey 24TH NOVEMBER 1944
Reg. Book. (Number of Visits 2)

on the NADIR Tons Gross 5497 Net 3007

Built at PORT GLASGOW By whom built MESSRS LITHGOWS LTD Yard No. 1004 When built 1944

Owners ASIATIC STEAM NAVIGATION CO LTD Port belonging to LONDON

Electrical Installation fitted by MESSRS SUNDERLAND FORGE & ENGINEERING CO LTD Contract No. 1004 When fitted 1944

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 YES System of Distribution TWO WIRE Voltage of supply for Lighting 110

Heating Power 110 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 YES and the results found as per rule YES 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 IN ENGINE-ROOM 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.

200 AMP. D.P. KNIFE PATTERN SWITCH WITH TWO 200 AMP. FUSES.

2 20 110 152 750 STEAM ENGINE

and for each outgoing circuit 60 OR 30 AMP. D.P. CHANGE-OVER SWITCHES WITH FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES 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

state maximum fall of pressure between bus bars and any point under maximum load LIGHTING 4.6 VOLTS. POWER 5.0 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

and found satisfactory.....~~Y.E.S.~~.....

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	20	110	182	750	STEAM ENGINE	-	-
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA- TED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Bals.			
MAIN GENERATOR	20	1	19/083	182	191	60	V.C.	L.C.
" " 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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers. Date 18/11/44

COMPASSES.

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

Minimum distance between electric generators or motors and steering compass TWENTY-FIVE FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 7 Ampères 8 feet from standard compass 6 feet from steering compass.

A cable carrying 16 Ampères led into standard compass led into 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 100 H.P. Yes In Pipe

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 9.6 degrees on 126 H.P. In Pipe course in the case of the

FORWARD COMPASS, and Nil degrees on 46 H.P. In Pipe course in the case of the steering compass.

CREW QRS LIGHTING BOARD LITHGOWS LIMITED. 21/11/44

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

Plans. Are approved plans forwarded herewith No If not, state date of approval 14/7/43

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

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. The materials and workmanship are good.

Total Capacity of Generators 40 Kilowatts.

The amount of Fee £ 25 - : When applied for, at £ 15

Travelling Expenses (if any) £ 1 : 10 : When received, 10

Committee's Minute GLASGOW 28 NOV 1944

Assigned See F & E Report (Gra to 22863)

J. M. Gardiner.
Surveyor to Lloyd's Register of Shipping.



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Foundation