

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 28th JUNE 1944 When handed in at Local Office... 1. 7. 1944 Port of... GLASGOWNo. in Survey held at... PORT GLASGOW Date, First Survey... 30th MARCH Last Survey... 26th JUNE 1944
Reg. Book. (Number of Visits... 7)374.74 on the... 'EMPIRE TALISMAN' Tons { Gross... 720.1
Net... 494.6Built at... PORT GLASGOW By whom built... LITHGOWS L^{TD} Yard No. 997 When built... 1944

Owners... MINISTRY OF WAR TRANSPORT Port belonging to... GREENOCK

Electrical Installation fitted by... MESSRS W. MUIR, GOODFELLOW & CO L^{TD} Contract No. 997 When fitted... 1944

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F. YES E.S.D. YES 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... YES, 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... Sindano, 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

300 AMP D.P. circuit breaker fitted with reverse current and overload trips with time lags

and interlocked equaliser switch.

and for each outgoing circuit... 100 AMP or 60 AMP D.P. Knife pattern switches and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 3

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

equaliser connection... YES 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... Full load, are the reversed current

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

did they operate... 10%-15% FL. 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... YES

state maximum fall of pressure between bus bars and any point under maximum load... LIGHTING, 6.5 VOLTS.
POWER, 4 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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protected — Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduits Pyrotex State how the cables are supported and protected MAINS: V.I.R cables in galvanized pipe.

supported and protected. MEANS: V.I.R cables in galvanised pipe.

MACHINERY SPACE: Mineral insulated cable (Protanox) clipped to steel tray.

ACCOMMODATION: L.C. cable (W.E.) clipped to woodwork.

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, Yes and with what material Iron

the groups of lights in the engine and boiler rooms arranged as per Rule, Yes Emergency Supply, state position 30

_____ 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 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 fittings

installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present.....

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

installed as per Rule 750 and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,

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

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 pump compartment.....

100 BHP intended for essential services been supplied and the results found as per Rule. Yes In separate correspondence for acceptance. Control Gear and Resistances, are they constructed and

100 BHP intended for essential services such as supplies and the residue found as per Rule. Yes Lighting 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....., 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

ships. — Are the cables lead covered as per Rule. — Spare Gear, if the vessel is for open sea service have spares been provided as per —
 2/ Insulation Tests, has the insulation resistance of all circuits and apparatus been tested

Rule. Yes, are they suitably stored in dry situations. Yes. Insulation Tests, has the insulation resistance of an circuit and apparatus been tested and found satisfactory. Yes.

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 ...	3	30	110	273	500	STEAM ENGINE		
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load 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	30	1	37/083	273	296	78	V.C.	L.C.
" " EQUALISER	—	1	19/083	—	191	39	V.C.	L.C.
.....								
.....								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

MAIN DISTRIBUTION CABLES.

[illegible]

LIGHTING AND HEATING, ETC., CABLES.

[illegible]

MOTOR CABLES.

[illegible]

Date 30/6/44

Date.....2076/55

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

Notice
L. J.
26/3/66

Assigned.