

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 7 - OCT 1942

Received at London Office.

Date of writing Report.....19..... When handed in at Local Office.....22 SEP 1942..... Port of Newcastle on Tyne

No. in Survey held at Walker Date, First Survey 29 July Last Survey 15 Sept 19 42
Reg. Book. "TUZLA" (Number of Visits.....6.....)

on the TUZLA Tons { Gross 716
Net 268

Built at Walker By whom built Swan Hunter & Wigham Yard No. 1752 When built 1942

Owners..... Port belonging to.....

Electrical Installation fitted by Black Chapman & Co Ltd Contract No..... When fitted.....

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

Have plans been submitted and approved Yes System of Distribution two wire Voltage of supply for Lighting 110

Heating No Power No Direct or Alternating Current, Lighting Direct 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..... 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 starboard side

....., 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 Engine room starboard side 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 "Synthane", 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 Double pole

single throw quick break knife switches and double pole fuses

and for each outgoing circuit Double pole, single throw, knife switches, quick break and

double pole fuses

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

ammeters one 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 connected via switches and fuses

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 4.4V, 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.....

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to dry or condensed moisture, weatherproof Yes. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. No, if so, how are they protected. _____

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 1, whether fixed or portable Fixed, are their fittings as per Rule. Yes 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. _____ 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. _____ 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. Yes Control Gear and Resistances, are they constructed and fitted 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. Yes Spare Gear, if the vessel is for open sea service have spares been provided as per Rule. Yes, are they suitably stored in dry situations. Yes Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. Yes

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	10	110	91	600	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.	Rule.			
MAIN GENERATOR	10	1	19'022	91	97	24'-0"	VIR	In galv. steel tubes
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

DESCRIPTION	QTY	UNIT PRICE	TOTAL	DATE	REMARKS		
WIRELESS	1	7.044	15	31	✓ 200'	VIR	See page 100
NAVIGATION LIGHTS	1	7.029	7	13	✓ 200'	"	"
LIGHTING AND HEATING							
Engine & boiler room	1	7.029	14	15	✓ 20'	"	"
Accommodation ^{mainly} mainly	1	7.044	45	46	✓ 160'	"	"
Projector	1	7.044	9	31	✓ 400'	"	"
Captain's accommodation from main deck	DR 1	7.029	7.5	15	✓ 24'	VIR	LC
Forward DB	1	7.036	15	24	✓ 200'	"	See page 100

[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 Clarke, Chapman & Co., Ltd.

W. H. Taylor Director

Electrical Engineers.

Date

14-9-42

COMPASSES.

Minimum distance between electric generators or motors and standard compass... 58'-0"

Minimum distance between electric generators or motors and steering compass... 50'-0"

The nearest cables to the compasses are as follows:—

A cable carrying 14 Ampères inside feet from standard compass 7 feet from steering compass.

A cable carrying 14 Ampères 7 feet from standard compass inside 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 every course in the case of the standard compass, and Nil degrees on every course in the case of the steering compass.

Thos Morrison DIRECTOR

Builder's Signature.

Date

18/9/42

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... 25/6/42

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

equipment of this vessel was installed in accordance with the approved plans and with the Society's rules. The materials used are of good quality and the workmanship is good. In completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus measured and found good:— This equipment is in my opinion suitable for a classed vessel.

Noted

24

8/10/42.

Total Capacity of Generators... 10 Kilowatts.

The amount of Fee ... £ 10 : 0

When applied for,

6 OCT 1942

Travelling Expenses (if any) £

When received,

19

A. E. Cornell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 20 OCT 1942

Assigned

See fee made, rpt



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