

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report.....19..... When handed in at Local Office.....4 NOV 1943.....19..... Port of.....HULL.....

No. in Survey held at.....Beverly & Hull..... Date, First Survey.....24.9.43..... Last Survey.....18.10.43.....
Reg. Book..... H.M.T. ROSEVEAN..... (Number of Visits.....11.....)

on the..... H.M.T. ROSEVEAN..... Tons { Gross.....452.....
Net.....144.....

Built at.....Beverly..... By whom built.....Cook, Weston & Gummel..... Yard No.....710..... When built.....1943.....

Owners.....The Admiralty..... Port belonging to.....

Electrical Installation fitted by.....W. B. Brown & Son..... Contract No..... When fitted.....1943.....

Is vessel fitted for carrying Petroleum in bulk.....No..... Is vessel equipped with D.F.....No..... E.S.D.....Yes..... 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.....110..... 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..... 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.....Admiralty supply..... 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.....Engine room starboard side on platform..... 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.....Insulated with mica..... if of synthetic insulating material is it an Approved Type..... 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, quick break knife switches & double pole fuses.....

and for each outgoing circuit.....Double pole quick break knife switches & 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.....Lamps connected to earth via switches & 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.....2V..... 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 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..... *Yes*, if so, how are they protected..... *Yes*

Accumulation bottom magazine fittings
and where are the controlling switches fitted..... *near deck above*....., are all fittings suitably ventilated..... *Yes*

are all fittings and accessories constructed and installed as per Rule..... *Yes* Searchlight Lamps, No. of *2-10"*....., whether fixed or portable..... *Intact*

....., are their fittings as per Rule..... *Yes* Heating and Cooking, is the general construction as per Rule..... *Yes*

are the frames effectually earthed..... *Yes*....., are heaters in the accommodation of the convection type..... *No* Motors, are all motors constructed and installed as per Rule..... *Yes* 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..... 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..... *Accumulation supply* Control Gear and Resistances, are they constructed and 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 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 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.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	20KW	115	174	500	Steam engine		
EMERGENCY ...								
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.	Rule.			
MAIN GENERATOR	20 KW	1	37/093	174	214	20'	KIR	LC RP6/BS.7 KE.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

WIRELESS	1	7/036	15	24	140	VIR	LC	AP623A	WE
NAVIGATION LIGHTS	1	7/036	5	24	180	"	"	"	"
LIGHTING AND HEATING									
Engine & boiler rooms	1	7/036	10	24	20	"	"	"	"
Aft accommodation	1	7/036	10	24	30	"	"	"	"
" heating	1	7/036	20	46	20	"	"	6192	"
Searchlight	1	7/044	18	31	150	"	"	6192	"
Forward lighting (cruiser)	1	7/036	15	24	40	"	"	6192	"
" (officer)	1	7/044	10	21	20	"	"	6192	"
" heating	1	7/044	25	31	16	"	"	6192	"
Radio	1	7/044	14	31	210	"	"	"	"
Radio	1	7/044	25	31	160	"	"	"	"
4th	1	7/044	10	21	160	"	"	"	"

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Vent fan 5"	3	$\frac{1}{2}$	1	3/036	2.5	10	25	Y1A	L.C. AP 6185A WE
" " 7 $\frac{1}{2}$ "	1	$\frac{1}{2}$	1	3/036	4.5	10	25	"	"
" " 12 $\frac{1}{2}$ "	1	$\frac{1}{2}$	1	7/020	14	24	20	"	6193
Refing (D.R.R) 7 $\frac{1}{2}$ cfm	1	$\frac{1}{2}$	1	3/036	5.2	10	20	"	6195
" " 3 $\frac{1}{2}$ cfm	1	$\frac{1}{2}$	1	3/036	5.2	10	20	"	"

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.

WM BROADY & SON LTD
ENGLISH STREET,
HULL

Electrical Engineers.

Date 15.10.43.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 80'-0"

Minimum distance between electric generators or motors and steering compass 74'-0"

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères inside feet from standard compass 6' feet from steering compass.

A cable carrying 2.5 Ampères 6' 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.

COOK, WILTON & GEMMELL, LTD.

Builder's Signature.

Date 18.10.43

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

Plans. Are approved plans forwarded herewith. Yes If not, state date of approval 19/2/41

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

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 under special survey and in accordance with the approved plans and with the specification. The materials used are of good quality and the workmanship is good. On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted
12/11/43.

Total Capacity of Generators 20 Kilowatts.

The amount of Fee 17: 10: :
When applied for, 4 NOV 1943
When received, 19: 10: :
Travelling Expenses (if any) £ : : 19: 10: :

ADMIRALTY

As rendered from
London 17.11.43

H. G. Connell
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

see minute
on J.E. Rpt.

TUES. 16 NOV 1943



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Foundation