

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

H 75220 GLE
No. M 24073 GAR

18 MAY 1950

Date of writing Report 20th March 1950 When handed in at Local Office 14. 5. 1950 Port of GLASGOW

No. in Survey held at Dumbarton Date, First Survey 29. 11. 49 Last Survey 21st Feb. 1950
Reg. Book. (No. of Visits 4)

40757 on the "OLINDA" Tons { Gross. 5424
Net. 2992

Built at Dumbarton By whom built Wm. Denny & Bros Ltd. Yard No. 1432 When built 1950
Owners British India Steam Nav. Co. Ltd Part belonging to London

Installation fitted by Wm. Denny & Bros Ltd. When fitted 1950

Is vessel equipped for carrying Petroleum in bulk. — Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. — Sub.Sig. — Radar Yes

Plans, have they been submitted and approved Yes System of Distribution Yoo wire Voltage of Lighting 110

Heating 110 Power 110 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency —

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted with a trip switch. — Generators, are they compound wound Yes, and level compounded under working conditions Yes, if not compound wound state distance between generators. — and from switchboard. — Are the generators 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. — and the results found as per Rule.

Position of Generators In Engine Room Is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil Yes Switchboards, where are main switchboards placed Near generators

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil Yes, what insulation is used for the panels "Lindanyo" 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 construction as per Rule, including locking of screws and nuts. Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole circuit breaker with overload trips.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole change-over switch and D.P. 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 are the ammeters and reversed current protection devices 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 value of fuses "Artis", are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 50%, and at what current do the reversed current protective devices operate. —

Point Boxes, Section Boards and Distribution Boards, is the construction as per Rule Yes are they insulated and protected as per Rule 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 less than 6%, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets Yes Are all paper insulated and varnished cambric insulated cables sealed at the ends. — Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit. — of the "HR" type. — State how the cables are supported or protected MACHINERY SPACES:- Clipped to steel tray. MAIN CABLES:- Clipped to steel tray and covered with steel plate where necessary. ACCOMMODATION:- Clipped to structure or good ground.

Are all lead sheaths, armouring and conduits effectually bonded and earthed 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 Refrigerated chambers, are the cables and fittings as per Rule. —

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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches 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 Is an alternative supply provided Yes

Secondary Batteries, are they constructed and fitted as per Rule Yes are they adequately ventilated Yes state 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 any 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.

and where are the controlling switches fitted. Yes Are all fittings suitably protected.

Searchlight Lamps, No. of 1, whether fixed or portable 1, are they of the carbon arc or of the filament type.

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 Yes Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil Yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the compartment Yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing Yes

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule Yes

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 Yes are all fuses of an Approved Cartridge Type Yes make of fuse Yes Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships Yes Are the cables lead covered as per Rule Yes

E.S.D., if fitted state maker Marconi (Leavis) location of transmitter Summit, Yarnus 43/44 and receiver Yarnus 114/5

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations Yes

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory Yes

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT			Revs. per Min.	TYPE.	PRIME MOVER.	MAKER.
			Kilowatts per Generator.	Volts.	Ampères.				
MAIN	2	Sunderland Forge & Eng. Co. Ltd.	35	110	318	550	Steam Engine	Sunderland Forge & Eng. Co. Ltd.	
EMERGENCY ROTARY TRANSFORMER									

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	35	1	61/103	318	332	54	Y.I.R.	L.C.B.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER MOTOR GENERATOR								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Lighting:- Navigation, Bridge & Boat Dks.	1	19/064	44	83	560	Y.I.R.	L.C.
Navigation, Boat & Upper Dks.	1	7/064	40	46	340	"	"
Midships Accom. Pt. & Stbd.	1	19/052	38	64	130	"	"
Crew Aft.	1	19/052	27	64	400	"	"
Cargo	1	19/052	41	64	300	"	"
Engine & Boiler Rooms	1	7/064	46	46	50	"	"
Wireless, D.F., & E.S.	1	7/064	24	46	500	"	"
Radar	1	19/064	42	83	380	"	"
Ventilation, Etc.	1	37/072	129	152	400	"	"
Engine Room Power	1	19/083	86	118	80	"	"

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
Navigation Lighting	1	3/029	2	5	20	Y.I.R.	L.C.
1 B Chart Room	1	7/029	10	15	20	"	"
1 C " "	1	7/029	14	15	20	"	"
1 D Lower Bridge	1	7/029	10	15	50	"	"
2 B Boat Dk. Fd.	1	7/036	13	24	100	"	"
2 C Upper " "	1	7/029	12	15	20	"	"
2 D " " "	1	7/029	11	15	20	"	"
2 E Tonnage Space	1	7/029	4	15	400	"	"
7 A Boiler Room	1	7/036	11	24	120	"	L.C.B.
7 B Engine Room Port	1	7/036	15	24	80	"	"
7 C " " Stbd.	1	7/036	15	24	10	"	"
7 D Tunnel	1	7/029	5	15	80	"	"
5 A Cargo: Foremast Hse.	1	7/052	11	37	400	"	L.C.
5 B Fd. Accom. Locker	1	7/044	7	31	260	"	"
5 C Mid " "	1	7/029	11	15	6	"	"
5 D Mainmast Hse.	1	7/044	12	31	260	"	"
Wireless D.F.	1	7/036	15	24	40	"	"
E.S.	1	3/036	5	10	40	"	"
	1	3/029	2	5	30	"	"

ALL IMPORTANT MOTORS TO BE ENUMERATED.

DESCRIPTION.	No.	B.H.P.	MOTOR CABLES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.		
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.					
Engine Room Vent Fans	2	2	1	7/036	16	24	240	Y.I.R.	L.C.B.
Boiler " " Fan.	1	2	1	7/044	16	31	400	"	"

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 WILLIAM DENNY & BROTHERS LIMITED.

Campbell Director and Secretary

Electrical Contractors. Date

COMPASSES.

Have the compasses been adjusted under working conditions

FOR WILLIAM DENNY & BROTHERS LIMITED.

Campbell Director and Secretary

Builder's Signature. Date

Have the foregoing descriptions and schedules been verified and found correct

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 21/10/49

Certificates. Are certificates of test for motors engaged on essential sea 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 has been installed under Special Survey, tried under full working conditions and found satisfactory. Materials and workmanship are good.

Noted
 9.5.19.5-50.

Total Capacity of Generators 70 Kilowatts.

The amount of Fee ... £ 50 : 10 :
 When applied for, MAR 25. 19 50
 When received, 19

Travelling Expenses (if any) £ : :

B. Daffner
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 17 MAY 1950 *CS.*

Assigned

See F.E. Machy Report Lrk 24073

2m.9.46.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

CS
 14.5.50



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