

7 OCT 1953

13.

No. 80907

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

of writing Report 10 9 53 When handed in at Local Office 17 9 53 Port of Shogun
 in Survey held at Reafren Date, First Survey 26 11 52 Last Survey 10 9 53
 Book. (No. of Visits 21)
8249 on the R.F.A. "EODYPRECK" Tons { Gross 2300
 By whom built Lobutz & Co Ltd Yard No. 1124 When built 1953
 Port belonging to (British)
 Installation fitted by J. Charters When fitted 1953

vessel equipped for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. - Sub.Sig. - Radar Yes
 ns, have they been submitted and approved Yes System of Distribution Two wire Voltage of Lighting 110
 ating 220 Power 220 D.C. or A.C., Lighting DC Power DC If A.C. state frequency -
 ime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted
 th a trip switch - Generators, are they compound wound Yes, and level compounded under working conditions Yes
 e the generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole Negative
 we machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines
 der 100 kw. been supplied and the results found as per Rule Yes Position of Generators 60 kw sets forward end of
machinery space, port and starboard sides; 15 KW M.C. sets, one on platform port side
of machinery space, one in emergency generator room.
 the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and
 image from water, steam and oil Yes Switchboards, where are main switchboards placed 220 volt board forward
end of machinery space, 110 volt board aft end machinery space.
 e they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,
 am and oil Yes, what insulation is used for the panels Alu-rod construction. Circuit
breakers on bakelite panels. 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
 r Rule - Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear
 r each generator and arrangement of equaliser switches 60kw generators. type pole current breakers with
reverse and reverse current types; 15 KW generators. double pole change-over
switches and fuses.
 d the switch and fuse gear (or circuit breakers) for each outgoing circuit double pole switches and fuses.

re compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 3
 mometers 3 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse current
 protection devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided -
Earth lamps Preference Tripping, state if provided No, and tested -
 witches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes
 ake of fuses English Electric (M) are all fuses labelled Yes If circuit breakers are provided for the generators, at what
 erload do they operate 150 % full load, and at what current do the reverse current protective
 vices operate 15 % full load Cables, are they insulated and protected as per Rule Yes
 otherwise than as per Rule are they of an Approved Type -, state maximum fall of pressure between bus bars and any point
 nder maximum load Less than 2 lbs. Are all paper insulated and varnished cambric insulated cables sealed at the ends Yes
 re all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical
 image Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes State
 pe of cables (if in conduit this should also be stated) in machinery spaces VAC, VACSW, VAPAC, galleys VAPAC
 d laundries - State how the cables are supported or protected -
Machinery spaces 16 or 18 cables clipped to steel tray.
Accommodation 16 cables clipped to steel tray or steel structure.

re all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight
 llheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes
 ectively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule Yes
 ve refrigeration fan motors been constructed under survey - and test certificates supplied -
 e the motors accessible for maintenance at all times -

005082-005088-0142

Lloyd's Register Foundation

Navigation lamps, are they separately wired... Yes... controlled by separate double pole switches and fuses... Yes... Are the switches and fuses

a position accessible only to the officers on watch.....*Yes*, is an automatic indicator fitted.....*Yes* Is an alternative supply provided.....*Yes*

Where required to do so does it comply with 1042.1.1.C

Lighting, is fluorescent lighting fitted. No If so, state nominal lamp voltage. - and compartments where lamps are fitted -

.....

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof.

10" Searchlight Projector (sprawling) Fixed
Searchlights No. of 2 whether fixed or movable
one of these of the earlier type and the other of the later type

Heating and Cooking, is the general construction as per Rule. Yes, are the frames effectually earthed. Yes, are heaters in

accommodation of the convection type..... Motors, are all motors constructed and installed as per Rule and placed in well-venti-

compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil.

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 p

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.....

Lightning Conductors, where required are they fitted as per Rule

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been com-

with Yes, are all fuses of an Approved Cartridge Type Yes, make of fuse English Electric (M) Are the fittings for p

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. *Is* Are all cables lead covered as per Rule *Is*
ESD if fitted state *Marconi* *Return Lines 42 and 43*

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.....

PARTICULARS OF GENERATING PLANT.

	RATED AT
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GENERATOR CABLES.

CONDUCTORS	
1	1
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4	4
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99	99
100	100

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

[illegible]

CONDUCTORS.	MAXIMUM CURRENT	APPROX
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	DESCRIPTION.	No. In Parallel per Pole.	Sectional Area or No. and Dis. of Strands Sq. ins. or sq. mm.	IN AMPERES.		LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
				In the Circuit.	Rule.			
Station box S1	Winches, Dft etc.	1	19064	27.3	143 ✓	332	VC	LC
S2	Refrigerating m/c	1	17038	23.8	24 ✓	180	VIR	LC
S3	Domestic F.W. etc	1	7064	59.8	80 ✓	140	VC	LC
S4	Workshop power	1	7064	16	80 ✓	80	VC	LC
S5	Hospital	1	7064	11.1	80 ✓	84	VC	LC
S6	Winches aft.	1	7064	24.7	80 ✓	50	VC	LC
S7	Winches mid	1	7064 turn 24.7	80 ✓	285	VC	LC	
S8	Domestic power.	1	7064 turn 23.8	80 ✓	290	VC	LC	
S9	Ventilation ER & BR	1	7064	84	143 ✓	40	VC	LC
S10	Ventilation aft	1	7064	66.7	80 ✓	50	VC	LC
S11	Ventilation mid	1	7064 turn 24	80 ✓	290	VC	LC	
S12	Bridge power	1	7064 turn 12.8	80 ✓	370	VC	LC	
S14	ER & BR lighting	1	7064	11.4	80 ✓	48	VC	LC
S15	Floodlights	1	7064 turn 19.1	80 ✓	300	VC	LC	
S16	Aft lighting	1	19064	68.3	143 ✓	70	VC	LC
S17	Bridge and upper deck.	1	19064	57.5	143 ✓	300	VC	LC
S18	Rain pans	1	7029	8.4	15 ✓	188	VIR	LC
Station box D1	Navigational Instruments	1	7038 turn 7.3	24 ✓	370	VIR	LC	
D2	ER lighting	1	.01 n.g. in 24.1	31 ✓	10	VIR	LC	
D3	BR	1	.007 " 17.3	24 ✓	10	VIR	LC	
D5	Floodlights	1	.0045 " 16	15 ✓	10	VIR	LC	
D6	" "	1	.0045 " 9.1	15 ✓	10	VIR	LC	
D7	aft lighting, pump	1	.007 " 19	24 ✓	48	VIR	LC	
D8	" " "	1	.007 " 15.9	24 ✓	30	VIR	LC	
D9	" " upper, port	1	.007 " 16.9	24 ✓	48	VIR	LC	
D10	" " " , stbd	1	.007 " 16.6	24 ✓	10	VIR	LC	
D12	fuel, navigation bridge	1	.007 " 16.9	24 ✓	40	VIR	LC	

P.W. pump	2	3	1	7/029	12	15	48	VIR	LC
Sub oil pump	1	4.6	1	7/044	18.3	31	32	VIR	LC
Sanitary pump	1	2	1	7/029	11	15	120	VIR	LC
Sub oil purifier	1	0.5	1	3/036	2.1	10	20	VIR	LC
Brkr room fans	2	2.9	1	7/029	12.5	15	66	VIR	LC
P.R. fans	2	2.9	1	7/029	12.5	15	120	VIR	LC
"	2	4	1	7/036	17.0	24	160	VIR	LC
Accommodation fans	3	.46	1	3/036	2.6	10	68	VIR	LC
	2	.18	1	3/036	1.5	10	60	VIR	LC
	3	2.5	1	7/029	11.8	15	72	VIR	LC
	1	1.1	1	3/036	5.5	10	52	VIR	LC
	3	3.0	1	7/029	13.0	15	88	VIR	LC
Port winches	5	6.0	1	7/044	26.0	31	88	VIR	LC

0.51

213 Navigation bridge	1	.003	4.5	10	✓	40	VIR	LC
214 Bridge deck	1	.003	4	10	✓	20	VIR	LC
215 " " scabwalk	1	.007	16.6	24	✓	20	VIR	LC
216 Mud & fwd U.D.	1	.003	15.5	24	✓	20	VIR	LC
217 Cabin fans	1	.003	3.8	10	✓	70	VIR	LC
218 " "	1	.003	4.6	10	✓	220	VIR	LC
Large Canal Propeller	1	7/1064	7.3	80	✓	370	VIR	LC
Smalling Propellers	1	7/1064	18.8	80	✓	370	VC	LC
Engaussing	1	7/1064	4.5	80	✓	48	VC	LC
Star	1	7/1064	13.6	80	✓	240	VC	LC

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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.

J. Charters

Electrical Contractors.

Date *10th Sept 53*

COMPASSES.

Have the compasses been adjusted under working conditions.

Yes

For LOBNITZ & CO., LIMITED,

Builder's Signature.

Date.

15th Sept 1953

Have the for *tions* and schedules been verified and found correct.

Yes

Is this inst *uplicate* of a previous case.

No

If so, state name of vessel.

NB! Similar to RFA Eddycliff.

Plans. Are approved plans forwarded herewith.

No

If not, state date of approval.

1.1.53 and 8.1.53

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

Yes

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The electrical installation now fitted has been installed under special survey in accordance with the Rules for Electrical Equipment and approved plan; it has been tested under working conditions and found satisfactory.

The materials and workmanship are good.

Total Capacity of Generators *180.* Kilowatts.

The amount of Fee ... £ *69*

Specification fee £ 69

When applied for, *6 OCT 1953*

When received,

10

Travelling Expenses (if any) £

J. Rowntree

Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

GLASGOW

6 OCT 1953

Assigned.

SEE ACCOMPANYING MACHINERY REPORT



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