

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

211 JUL 1951

Date of writing Report 16th July, 1951. When handed in at Local Office 19 Port of PLYMOUTH

No. in Survey held at DARTMOUTH. Date, First Survey 18. 4. 51. Last Survey 27th June, 1951. Reg. Book. (No. of Visits Eight)

on the "LANDAK"

Built at Dartmouth By whom built Philip & Son Ltd. Yard No. 1220 When built 6.51

Owners The Shell Co. of Singapore Ltd. Port belonging to Singapore

Installation fitted by Philip & Son Ltd. When fitted 6.51.

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

Plans, have they been submitted and approved Yes System of Distribution Parallel Constant Voltage of Lighting 110

Heating --- Power 110 D.C. or A.C., Lighting D.C. Pressure 2 Wire 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 Yes and the results found as per Rule Yes

Position of Generators Engine Room. One port side (No.1) & One Starboard (No.2)

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 Engine Room - Port aft.

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 Sindanyo, 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 Double Throw Knife switches and D.P. fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double Pole knife switches & 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 and switches

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

make of fuses Zed (Siemens), are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate. ---, and at what current do the reversed current protective devices operate. ---

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule Yes

Cables, 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 3 volts, 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 Yes 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 No, if so, are they

adequately protected. --- Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit. ---

r of the "HR" type. --- State how the cables are supported or protected

Clipped to trays or run in channel on deck

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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Foundation

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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. 78 amp/hr. for W.T. etc.,

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. ---

if so, how are they protected. ---

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

Searchlight Lamps, No. of. None, whether fixed or portable. ---, are they of the carbon arc or of the filament type. ---

Heating and Cooking, is the general construction as per Rule. None, 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 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 pump compartment. Yes 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 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. Not Req'd

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. Zed (Siemens) 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. No location of transmitter. --- and receiver. ---

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 SET.							PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT			Revs. per Min.	TYPE.	MAKER.
			Kilowatts per Generator.	Volts.	Ampères.			
MAIN ...	2	Clarke Chapman	20	110	182	1000	Heavy Oil	Crossley Bros. Ltd.
EMERGENCY ...								
ROTARY								
TRANSFORMER								

GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load 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	20	One	19/083	182 ✓	202	80	V.C.	L.C.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR...								

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.		No.	B.H.P.	MOTOR CABLES.							
Hydraulic Capstan Pump	1	2.5	One	7/044	124 ✓	245	60	V.C.	L.C.		
" Steering Pump	1	20	"	19/083	155 ✓	202	60	V.C.	"		
Ventilating Fan	1	3	"	7/044	26 ✓	45	80	"	"		
From } Fuel Pump	1	$\frac{3}{4}$	"	7/029	9 ✓	15	30	V.I.R.	"		
Box } Fresh Water Pump	1	$\frac{1}{2}$	"	"	6 ✓	15	30	"	"		
No.5 } Refrigerator	1	$\frac{3}{4}$	"	"	9 ✓	15	80	"	"		
For'd Ballast Pump	1	3	"	7/044	26 ✓	45	250	V.C.	" & Armd.		

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 PHILIP & SON, LIMITED.

Philip

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

FOR PHILIP & SON, LIMITED.

Philip

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct. Yes

Is this installation a duplicate of a previous case. No If so, state name of vessel. ---

Plans. Are approved plans forwarded herewith. Yes If not, state date of approval. ---

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

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

This Electrical Installation has been fitted on board under Special Survey in accordance with or equivalent to the Rules, approved plans and Secretary's Letters. The workmanship and materials are good and when tested under working conditions it was found satisfactory in every respect.

Noted sub 10/8/51

Total Capacity of Generators 40 ✓ Kilowatts.

The amount of Fee ... £ 37 : 10 :

When applied for,
19. 7. 1951.

Travelling Expenses (if any) £ 4 : 13 :

When received,
19

For E. Howey
Surveyor to Lloyd's Register of Shipping.

FRI. 17 AUG 1951

Committee's Minute

Assigned

See F.E. mch. rpt.