

Rpt. 13

No. 16252.

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

HONG KONG.

Date of writing Report 14-6-1961. When handed in at Local Office 15-6-1961. Port of

No. in Survey held at Hong Kong. Date, First Survey 25-4-61. Last Survey 20-5-1961. (No. of Visits 5.)

Reg. Book on the M.S. "KURWINA" Tons { Gross 227.02 Net 99.75

Built at Hong Kong. By whom built Taikoo Dockyard & Engineering Co. of Hong Kong Ltd. Yard No. 486 When built 5-1961.

Owners Burns Philp & Co. Ltd. Port belonging to Port Moresby.

Installation fitted by Taikoo Dockyard & Engineering Co. of Hong Kong Ltd. When fitted 5-1961.

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

Plans, have they been submitted and approved Yes. System of Distribution Two-Wire Parallel. Voltage of Lighting 110 V.

Heating -- Power 110 V. 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,

Are the generators arranged to run in parallel No. Is the compound winding connected to the negative or positive pole Negative.

Have machines 100 kw. and over 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 Yes. Position of Generators No.1 Generator, Engine Room Bottom Centre; No.2 Generator Engine Room Bottom Aft.

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 Bottom

Starboard 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 "Tufnol" & Dead Front, 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 100 Amps. D.P.S.T. Rotary Switch & 75 Amp. Rewireable Fuses,

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 5 Off - 40 Amp. D.P.D.T. Rotary Switches With 20/35 Amp. Rewireable Fuses & 6 Off - 25 Amp. D.P.D.T. Rotary Switches With 15 Amp. Rewireable Fuses.

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

ammeters Two 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 -- Earth Testing, state means provided Lamps.

Preference Tripping, state if provided No. and tested --

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

make of fuses "Artic", 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 reverse current protective devices operate --

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 4.2 volts. 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 -- State type of cables (if in conduit this should also be stated) in machinery spaces VCLCB, VIRLCA&B, galleys V.I.R.L.C. & B.

and laundries -- State how the cables are supported or protected 1. In Engine Room, Heavy Gauge Galvd. Steel Perforated Trays 2. Cargo Space & Fwd. End., H.G. Steel Conduits.

3. In Accommodation, H.G. Galvd. Steel Perforated Trays For Main Cables Run & Wood Grounds For Cabin Lights.

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 Yes.

Have refrigeration fan motors been constructed under survey None. and test certificates supplied --

Are the motors accessible for maintenance at all times --



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Alternative Lighting, are the groups of lights in the engine ~~and boiler~~ room 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. No. Is an alternative supply provided. Yes.
(for Main Engine Starters).

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule. Yes, state battery capacity in ampere hours. 148 Where required to do so does it comply with 1948 International Convention. --

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. **Yes.**

Searchlights, No. of Nil, 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....., 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 pump 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.**

Lightning Conductors, where required are they fitted as per Rule. Not required.

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with ---, *are all fuses of an Approved Cartridge Type* ---, *make of fuse* ---. *Are the fittings for pump*

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships..... Are all cables lead covered as per Rule. --

E.S.D., if fitted state maker --- 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 PLANT

DESCRIPTION OF GENERATOR	No. of	MAKER	RATED AT				PRIME MOVER	
			Kw. per Generator	Volts	Ampères	Revs. per Min.	TYPE	MAKER
MAIN	2	Lancashire Dynamo & Crypto Ltd.	7.5	110	68	1200	2 LW & 3 LW	Gardner
EMERGENCY ...								
ROTARY								
TRANSFORMER								

GENERATOR CABLES

[illegible]

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.)

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

[illegible]

MOTOR CABLES

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	H.P.						
1. Cargo Oil Pump Motor	1	1½	Single	7/.036	13.9	24	230	VIRLCB Run In Steel Conduit.
2. Cargo Hold Supply Fan	1	0.36	"	7/.029	3.2	15	290	" " " " "
3. Provision Refrig. Compressor	1	1½	"	7/.036	14.3	24	66	" Galvd. Steel Perf. Tray.
4. Bilge & General Service Pump.	1	1½	"	7/.036	13.9	24	96	" " " " "
5. E.R. Supply Fan	1	0.16	"	7/.029	1.6	15	112	" " " " "

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.

THE TAIKOO DOCKYARD & ENGINEERING
COMPANY OF HONG KONG LIMITED

Manager

Electrical Contractors.

Date 24 JUN 1961

COMPASSES

Have the compasses been adjusted under working conditions Yes.

THE TAIKOO DOCKYARD & ENGINEERING
COMPANY OF HONG KONG LIMITED

Manager

Builder's Signature.

Date 24 JUN 1961

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

Is this installation a duplicate of a previous case Yes. If so, state name of vessel M.V. "KALILI", Yard No. 485.

Forwarded with sister

Plans. Are approved plans forwarded herewith ship "KALILI" If not, state date of approval 25-10-60.

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 Equipment of this vessel has been installed under Special Survey in accordance with the approved plans and the Secretary's letters. The workmanship is good and the materials in accordance with Rule requirements.

The installation has been examined under full working conditions, tested as per Rule requirements, and found satisfactory.

Documents forwarded herewith

Makers Works Test Certificate for Cargo Oil Pump Motor.

Document forwarded with sister ship - M.V. "KALILI"

Copy of Ips. Rpt. 10 16611 - Engine Room Vent. Fan Motor.

Makers Works Test Certificates for Bilge & G.S. pump & Cargo Oil Pump Motors.

General Arrangement & Line Diagram of Electrical Circuits.

Total Capacity of Generators 15 Kilowatts.

The amount of Fee ... \$360.00

When applied for,

23-5-1961.

When received,

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Travelling Expenses (if any) £ - : - :

J.L.V. Whittle.

Surveyor to Lloyd's Register of Shipping

FRIDAY - 1 SEP 1961

Committee's Minute

Assigned

See LA 4574