

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

BSEF

Date of writing Report 23-8-1958. When handed in at Local Office 23-8-1958. Port of HONG KONG.

No. in Survey held at Hong Kong. Date, First Survey 16th May, Last Survey 15th August, 58. Beg. Book. (No. of Visits 8)

on the "DEGEI II" Pacific Islands Shipbuilding Co., Ltd. Yard No. 168 When built 1958.
 Built at Hong Kong. By whom built Co., Ltd. When built 1958.
 Owners Department of Public Works, Government of Fiji. Port belonging to Hong Kong (Temporary)
 Installation fitted by Pacific Islands Shipbuilding Co., Ltd. When fitted 1958.

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 D.C. System Voltage of Lighting 110.

Heating 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 - Are turbine emergency governors fitted with a trip switch - Generators, are they compound wound Yes., and level compounded under working conditions -

Are the generators arranged to run in parallel Yes. Is the compound winding connected to the negative or positive pole Negative Pole.

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 -

Position of Generators One placed at Engine Room Forward centre, The other placed at Engine Room Aft centre.

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 Forward Port

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 Air Circuit Breaker With Overload & Reverse Current Trip & Equaliser Blade.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double Pole Single Throw Knife Switches & Rewireable Porcelain Fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule - 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 Yes. Earth Testing, state means provided Earth Lamps. Preference Tripping, state if provided - and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes., are the fuses an Approved Type Yes. Midland Elect. Manuf. Co. make of fuses Kentark Mem., are all fuses labelled Yes. If circuit breakers are provided for the generators, at what overload do they operate 25% full load. and at what current do the reverse current protective devices operate 10% full load. 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 2 volts. 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 No., if so, are they adequately protected - State type of cables (if in conduit this should also be stated) in machinery spaces Vulcanised R.I. & Lead Covered., galleys Vulcanised R.I. & Lead Covered.

and laundries - State how the cables are supported or protected All cables run on perforated cable plating or wood casing and secured by cable clips and screws.

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 -

Have refrigeration fan motors been constructed under survey - and test certificates supplied -

Are the motors accessible for maintenance at all times -



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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.

PACIFIC ISLANDS SHIPBUILDING CO., LTD.

David Carter

Electrical Contractors.

Date

22 SEP 1958

Shipyard Manager

COMPASSES.

Have the compasses been adjusted under working conditions Yes.

PACIFIC ISLANDS SHIPBUILDING CO., LTD.

David Carter

Builder's Signature.

Date

22 SEP 1958

Shipyard Manager

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 Not available.

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

The Generators now installed were tested and found satisfactory but as they are second hand machines the Builders are arranging to furnish new Generators when they become available.

The Electrical Equipment of this vessel has been installed under Special Survey in accordance with the approved plans and the Secretary's letter or as amended.

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.

Approved plans forwarded herewith also as fitted

Wiring Diagram of Main Switchboard.

Schematic Diagram of Electrical System.

Diagrammatic Arrangement of Electric Light Circuits.

General Arrangement of Electrical Installation.

Total Capacity of Generators 13 Kilowatts.

The amount of Fee ... \$416.00 : When applied for, 15-8-1958.

Travelling Expenses (if any) \$21.00 : When received, 19.

James A. Anderson

James A. Anderson.

Surveyor to Lloyd's Register of Shipping.

TUESDAY 30 SEP 1958

Committee's Minute

Assigned

See Rpt. 1



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