

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 21 JAN 1957

Date of writing Report 28th Dec. 1956 When handed in at Local Office 19 Port of YOKOHAMA

No. in Survey held at Yokohama, Japan Date, First Survey 6th Sept. 1956 Last Survey 7th Dec. 1956  
Reg. Book. (No. of Visits 9)on the M.V. "GEORGIA MARU" Tons { Gross 7,662.04  
Net 4,407.12  
Built at Yokohama, Japan By whom built Yokohama Shipyard & Engine Works, Mitsubishi Nippon Heavy Industries Ltd. Para No. 815 When built 1956 - 12

Owners Mitsubishi Kaifu Kabushiki Kaisha Port belonging to Tokyo

Installation fitted by Yokohama Shipyard &amp; Engine Works, Mitsubishi Nippon Heavy Industries Ltd. When fitted 1956 - 12

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

Plans, have they been submitted and approved. Yes System of Distribution Three-wire for power &amp; main lighting Two-wire for lighting Voltage of Lighting 110V

Heating 110V Power 440V D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 60 C.S.

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. Yes Is the compound winding connected to the negative or positive pole. -

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing. Yes Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule. Yes Position of Generators Port inboard and outboard

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. Forward machinery room

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. "BEKELITE" 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. Triple pole linked air circuit breaker with over current trips and disconnecting switch without equaliser switch

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. For each outgoing circuits under 200 A. Loads, Thermal magnetic type, 3-poles air circuit breakers, used. For the circuits over 200A Load, 3-poles air circuit breakers, used.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Yes Instruments on main switchboard. 9 ammeters. 5(A.C.) voltmeters. 2(A.C.) 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.

Three (3) lamp system. 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

For 440V. Fuji Denki Seizo K.K. make of fuses. For 110V. Ubeonuma K.K. are all fuses labelled. Yes If circuit breakers are provided for the generators, at what overload do they operate. Instant-115% of the rated current (20 Sec.) and at what current do the reverse current protective

devices operate. At 13% of the rated current. 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. 5.8(1.3%) 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. Yes, if so, are they adequately protected. Yes State

type of cables (if in conduit this should also be stated) in machinery spaces. Steel Wire Braided, Rubber, and Lead Alloy Sheathed, Rubber, and Lead Alloy Sheathed,

and laundries. - State how the cables are supported or protected. where exposed to risk of mechanical

damage, cables are protected in accordance with the requirement of M-914, cables entering cold storage chambers

are laid in accordance with the requirement of M-916.

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. - and test certificates supplied. -

Are the motors accessible for maintenance at all times. Yes

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

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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.

H. Kagehara Electrical Contractors. Date \_\_\_\_\_

#### COMPASSES.

Have the compasses been adjusted under working conditions \_\_\_\_\_

H. Kagehara Builder's Signature. Date \_\_\_\_\_

Have the foregoing descriptions and schedules been verified and found correct \_\_\_\_\_

Is this installation a duplicate of a previous case \_\_\_\_\_ If so, state name of vessel \_\_\_\_\_

Plans. Are approved plans forwarded herewith \_\_\_\_\_ If not, state date of approval \_\_\_\_\_

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

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

The Electrical Equipment of this vessel has been constructed and installed under the supervision of the Society's Surveyors in accordance with the Approved plans and the Rules.

The Workmanship and materials have been found satisfactory.

The Electrical Equipment has been examined under working condition and insulation tested according to the Rules.

It is submitted that the Electrical Equipment of this Vessel is eligible to be classed with this Society with notation of  $\star$  LMC 12,56.

Total Capacity of Generators <sup>272</sup> Kilowatts.

16th July 1956 at Kobe charged ¥27,900.-

The amount of Fee ... ¥137,900.- :

When applied for,

19

When received,

19

Travelling Expenses (if any) £ :

R. Brimicombe Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUESDAY 12 FEB 1957

Assigned



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