

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 20th JUNE 1955 When handed in at Local Office JUL 1 1955 19

Port of YOKOHAMA 6 JUL 1955

No. in Survey held at YOKOHAMA
Reg. Book.Date, First Survey 26th APRIL 1955 Last Survey 15th JUNE 1955

(No. of Visits 13)

on the SINGLE SCREW M.V. "VIRGINIA MARU"

Tons { Gross 7633.48
Net 4371.82

Built at YOKOHAMA, JAPAN By whom built MITSUBISHI NIPPON HEAVY IND. Ltd. Yard No. S. 802 When built 6. 1955.

Owners MITSUBISHI KAIUN K. K. Port belonging to TOKYO, JAPAN.

Installation fitted by YOKOHAMA SHIPYARD & ENGINE WORKS, MITSUBISHI NIPPON HEAVY IND. Ltd. When fitted 5 - 1955.

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-PHASE, THREE-WIRE 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 S/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 / and level compounded under working conditions /

if not compound wound state distance between generators / and from switchboard / Are the generators arranged to run in parallel YES, are shunt field regulators provided YES Is the compound winding connected to the negative or positive pole /

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing YES Have certificates of test for machines under 100 kw. been supplied YES and the results found as per Rule YES.

Position of Generators TWO SETS OF A.C. GENERATORS ARE FITTED AT PORTSIDE OF THE ENGINE ROOM.

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 PORTSIDE FWD. OF THE ENGINE 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 PHENOL RESIN MOULDED, if of synthetic insulating material is it an Approved Type /, 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 MAIN SWITCHGEAR IS COMPOSED OF 2 - GENERATOR PANEL
1 - SYNCHRONIZING PANEL, 1 - 440 VOLT POWER CIRCUITS FEEDER PANEL AND 1 - 110 VOLT LIGHTING CIRCUITS FEEDER PANEL.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit FOR EACH OUTGOING CIRCUITS UNDER 200 A. LOAD, NO FUSE BREAKER ARE USED.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard AC 4
DC 2
ammeters DC 2 voltmeters 3 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 THREE LAMP SYSTEM AND NEUTRAL IS EARTHED THROUGH A SWITCH.Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES
CATEGORY 3, BC, CERAMIC BODY, SCREW IN TYPE CARRIER AND BASE
make of fuses FUJI ELECTRIC MFG CO., Ltd. are all fuses labelled YES If circuit breakers are provided for the generators, at what overload do they operate INSTANT 1300 A, TIME 400 A, and at what current do the reversed current protective devices operate REVERSE POWER RELAY

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 LIGHT 5V, 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 YES, if so, are they adequately protected YES Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit YES.

or of the "HR" type NO State how the cables are supported or protected WHERE EXPOSED TO RISK OF MECHANICAL DAMAGE, CABLES ARE PROTECTED IN ACCORDANCE WITH THE REQUIREMENT OF M914, CABLES ENTERING COLD-STORAGE CHAMBERS ARE LAID IN ACCORDANCE WITH THE REQUIREMENT OF M916

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

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

PARTICULARS OF GENERATING PLANT.

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.

Electrical Contractors. Date

COMPASSES.

Have the compasses been adjusted under working conditions. YES.

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Builder's Signature. Date 26th June 1955

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

Is this installation a duplicate of a previous case. N.O. If so, state name of vessel

Plans. Are approved plans forwarded herewith. N.O. If not, state date of approval

MAIN SWITCH BOARD 5-4-55
INSTALLATION 5-4-55

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

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, 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 EQUIPMENT HAS BEEN EXAMINED UNDER WORKING CONDITION AND INSTALLATION TESTED ACCORDING TO THE RULES.

IT IS SUBMITTED THAT THE ELECTRICAL EQUIPMENT OF THIS VESSEL IS ELIGIBLE BE CLASSED WITH THIS SOCIETY WITH NOTATION OF + LMC 6.55.

AT POWER FACTOR 0.8

Total Capacity of Generators 272 Kilowatts.

The amount of Fee ... £137,700 - : When applied for, JUL. 1955

INSTALLATION ONLY

When received,

Travelling Expenses (if any) £ : : 19

Shuman for self & others

Surveyor to Lloyd's Register of Shipping.

FRIDAY 16 SEP 1955

Committee's Minute

Assigned See Rpt. 46

(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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