

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

3 JUN 1952

Date of writing Report 12-3-1952 When handed in at Local Office 12-3-1952 Port of Yokohama
 No. in Survey held at Yokohama, Japan Date, First Survey 1-12-51 Last Survey 15-2-1952
 Reg. Book. (No. of Visits 15)

on the SINGLE SCREW VESSEL M.V. "TOKYO MARU" Tons { Gross 6573.83
 Net 3765.80
 Built at Yokohama, Japan By whom built Yokohama Shipyard & Engine Works
EAST JAPAN HEAVY INDUSTRIES LTD. Yard No. 5781 When built 2-1952

Owners TOKYO SENPAKU K.K. TOKYO Port belonging to TOKYO
 Installation fitted by Yokohama Shipyard & Engine Works, East Japan Heavy Industries Ltd. When fitted 2-1952

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 TWO WIRE SYSTEM (POWER)
THREE WIRE SYSTEM (LIGHT) Voltage of Lighting 110V

Heating 220V Power 220V 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, 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 NEGATIVE & POSITIVE 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 ENGINE ROOM FLOOR FORWARD, NO. 1 - STARBOARD, NO. 2, 3 - PORT SIDE

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 MIDDLE PLATFORM, FORWARD, PORT SIDE

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 SYNTHETIC RESIN (PHENOL RESIN) BONDED BOARD, 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 YES 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 ALL MAIN SWITCHGEARS FOR THE GENERATORS ARE OF 5-POLE AIR CIRCUIT BREAKERS AND EQUALISER SWITCHES ARE INCLUDED IN THESE A.C.B.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit UNDER 200A. - SWITCH AND FUSE GEARS; OVER 200A. - AIR CIRCUIT BREAKERS

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 23 ammeters 6 voltmeters NO synchronising devices NO For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection YES Earth Testing, state means provided THREE LAMPS SYSTEM

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

make of fuses MITSUBI NOF 200 & 100, are all fuses labelled YES If circuit breakers are provided for the generators, at what overload do they operate INST. TRIP 150% OF RATED CURRENT and at what current do the reversed current protective devices operate 14% OF RATED CURRENT

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 6.2V (2.7%), are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets SOLDERLESS TERMINALS 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 - State how the cables are supported or protected CABLES IN THE ENGINE ROOM LAID ON THE BACKING PLATES; IN THE CARGO HOLDS LAID ON THE BACKING PLATES AND PROTECTED WITH STEEL COVERS.

ALL CABLES ARE FIXED WITH BRASS STRAPS.

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

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

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

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

ALL MOTOR MOTORS TO BE ENUMERATED.		No.	B.H.P.	MOTOR CABLES.						VOL. RUBBER	LEAD ALLOY SHEATHING (AMMURED)
L.O. PUMP	2	65	1	61/0.103	240	240	100				
COOLING S.W. & F.W. PUMP	2	65	1	61/0.103	240	240	125				
MAIN AIR COMPRESSOR	1	65	1	61/0.103	240	240	170				
G. S. PUMP	1	60	1	61/0.103	226	240	160				
BILGE BALLAST PUMP	1	25	1	37/0.072	96	110	180				
BILGE PUMP	1	20	1	37/0.072	80	110	200				
MOTOR ROOM VENT. FAN	2	5	1	19/0.044	21	38	500				
F.O. TRANSFER PUMP	2	10	1	19/0.052	40	46	65				
VACUUM PUMP	1	7.5	1	7/0.064	30	33	40				
BILGE SANITARY PUMP	1	5	1	7/0.064	21	33	60				
OIL BURNING BLOWER	1	4	1	7/0.044	17.2	22	30				
F.O. SERVICE PUMP	1	3	1	7/0.036	13.2	17	110				
L.O. TRANSFER PUMP	1	3	1	7/0.036	13.2	17	20				
WINDLASS	1	60	1	37/0.073	229	331	430				
STEERING	1	15	2	19/0.083	57	85	520				
MOORING WINCH	1	33	1	37/0.072	130	191	240				
REF. MACHINE COMPRESSOR	2	10	1	19/0.064	43	60	30				
" " COOLING S.W. PUMP	2	2	1	7/0.029	9	11	220				

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. Kageby

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions. YES

H. Kageby

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. NO If not, state date of approval. 11-2-52

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.)

THE ELECTRIC 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 CONDITIONS AND INSULATION TESTED ACCORDING TO RULES.

IT IS SUBMITTED THAT THE ELECTRIC EQUIPMENT OF THIS VESSEL IS ELIGIBLE TO BE CLASSED WITH SOCIETY AND TO HAVE THE NOTATION + LMC 2,52

Noted 23-6-52

Total Capacity of Generators. 490 Kilowatts.

The amount of Fee ... £ 255,700.-

When applied for,

19

When received,

19

Travelling Expenses (if any) £

Chas. P. Banda

Surveyor to Lloyd's Register of Shipping.

FRI. 27 JUN 1952

Committee's Minute

Assigned

See F.E. naly. rpt.



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Foundation