

No. OCT 1950

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 10-8-1950 When handed in at Local Office 19 Port of KOBE

No. in Survey held at OSAKA Date, First Survey 16-7-50 Last Survey 30-6-1950
Reg. Book. (No. of Visits) 4on the STEEL SINGLE SCREW STEAMER "SHINWA MARU"
Kawaminami Industry Co. Ltd.

Built at Nagasaki By whom built Kogakishima shipyard Yard No. 148 When built 30-10-1941

Owners Nitto Merchant Ship Co. Inc. Port belonging to Tokyo

Installation fitted by Kawaminami, Kogakishima shipyard. When fitted Oct. 1941.
Repaired by Fujinaga ship yard.

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 they been submitted and approved Yes System of Distribution Two wire system Voltage of Lighting 110

Heating / Power / D.C. or A.C., Lighting D.C. Power 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 /

if not compound wound state distance between generators / and from switchboard /. Are the generators arranged to run in parallel No. (one generator). Are shunt field regulators provided / 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 / Have certificates of

test for machines under 100 kw. been supplied / and the results found as per Rule / Position of Generators 5 side middle stage in 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 Near the Generators

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 insulating material, 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 switch One generator only fitted

and the switch and fuse gear (or circuit breakers) for each outgoing circuit double pole linked switch and a fuse on each pole

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes. Instruments on main switchboard One ammeter One voltmeters no 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 Two earth lamps on the main switch board

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes, make of fuses /, are all fuses labelled / If circuit breakers are provided for the generators, at what overload do they operate 10, and at what current do the reversed current protective devices operate /

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 1.5 volts, 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 /

or of the "HR" type / State how the cables are supported or protected Supported on the steel grates in Engine Boilers rooms, hatch & bunker, & protected by steel plates in bunkers & partly in hatches; and Navigation lamp cables run in pipes

Are all lead sheaths, armouring and conduits effectively 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 No refrigerated chamber.

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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule ✓. Emergency Supply, state position
Secondary battery is fitted on the boat deck

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 Yes Is an alternative supply provided No

Secondary Batteries, are they constructed and fitted as per Rule Yes, are they adequately ventilated Yes
state battery capacity in ampere hours _____

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture weatherproof Yes
Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present None, if so, how are they protected ✓
and where are the controlling switches fitted ✓. Are all fittings suitably ventilated Yes

Searchlight Lamps, No. of 2, whether fixed or portable fixed are they of the carbon arc or of the filament type filament type

Heating and Cooking, is the general construction as per Rule None, 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 ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil None.
Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment ✓. 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 ✓

Control Gear and Resistances, are they constructed and fitted as per Rule Yes. Lightning Conductors, where required are they fitted as per Rule Yes. Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with None, 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 the 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.

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULA- TION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area of No. and Dia. of Strands. Sq. ins. or Sq. mm.				
MAIN GENERATOR	...						
" "	EQUALISER	...					
EMERGENCY GENERATOR	...						
ROTARY TRANSFORMER: MOTOR	...						
" "	GENERATOR	...					

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

DESCRIPTION

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

MOTOR CABLES.

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

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 ✓ If so, state name of vessel ✓

Plans. Are approved plans forwarded herewith No If not, state date of approval 6-4-50

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 installation of this vessel has been examined in accordance with the Rules as set forth in Section 4 of the Rules for "Classification of ships not built under Survey", approved plans and Secretary's letters.

The workmanship & material were found sound & good.
The Generators & equipments etc, have been examined under working condition on full load to Rules requirement found satisfactory.

Noted Oct 27/10/50

Total Capacity of Generators 10 ✓ Kilowatts.

The amount of Fee ... £ 24-0-0 When applied for,

{ 19
When received, 19

Travelling Expenses (if any) £

Mr Lamakura
Surveyor to Lloyd's Register of Shipping.

MADE AND PRINTED AT KOBIC
All the signatures are required not to write one or below the space for Committee's Minute.)

Committee's Minute

FRI. 3 NOV 1950

Assigned

Sir F. E. Murchy, M.P.

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