

27 SEP 1932

No. 7879.

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

27 SEP 1932

Date of writing Report 26 Aug 1932 When handed in at Local Office 3rd Sept. 1932 Port of Kobe.

No. in Survey held at Harima Date, First Survey 28 June 1932 Last Survey 25th Aug 1932
Reg. Book. on the Single Screw S/S. JOHORE MARU (Number of Visits 6)Built at Harima By whom built Harima S.B. & E.C. Yard No. 184 When built 1932.
Owners Ishihara Gomei Kaisha Port belonging to Fuchu Tons { Gross 6181.44
Net 3733.66

Electric Light Installation fitted by Harima S.B. & E.C. Ltd Contract No. 184 When fitted 1932.

System of Distribution Two-wire system ✓

Pressure of supply for Lighting 110 volts, Heating ✓ volts, Power 110 volts.

Direct or Alternating Current, Lighting Direct Power Direct ✓

If alternating current system, state frequency of periods per second ✓

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off. yes ✓

Generators, do they comply with the requirements regarding rating. yes ✓, are they compound wound. yes ✓

are they over compounded 5 per cent. yes ✓, if not compound wound state distance between each generator. ✓

Where more than one generator is fitted are they arranged to run in parallel. no ✓, is an adjustable regulating resistance fitted in

series with each shunt field. yes ✓

Are all terminals accessible, clearly marked, and furnished with sockets. yes ✓, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched. yes ✓ Are the lubricating arrangements of the generators as per Rule. yes ✓

Position of Generators Two 2 Starboard side E.R. one on boat deck in motor room ✓

is the ventilation in way of the generators satisfactory. yes ✓, are they clear of all inflammable material. yes ✓

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

✓ and ✓, are the generators protected from mechanical injury and damage from water, steam or oil. yes ✓

are their axes of rotation fore and aft. yes ✓

Earthing, are the bedplates and frames of the generating plant efficiently earthed. yes ✓ are the prime movers and

their respective generators in metallic contact. yes ✓

Main Switch Boards, where placed. In engine room ✓

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard. yes ✓

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes. yes ✓

are they protected from mechanical injury and damage from water, steam or oil. yes ✓, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards. ✓ and ✓

are they constructed wholly of durable, non-ignitable non-absorbent materials. yes ✓, is all insulation of high dielectric strength and of

permanently high insulation resistance. yes ✓, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micawile or other non-hygroscopic insulating material, and the slab similarly insulated from its framework. ✓

and is the frame effectively earthed. ✓ Are the fittings as per Rule regarding: — spacing or shielding of live parts

yes ✓, accessibility of all parts. yes ✓, absence of fuses on back of board. yes ✓, proportion of omnibus

bars. yes ✓, individual fuses to voltmeter, pilot or earth lamp. yes ✓, connections of switches. yes ✓

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches. 1 single pole

air circuit breaker, 250 A double pole knife switch with fuses, one pilot lamp.

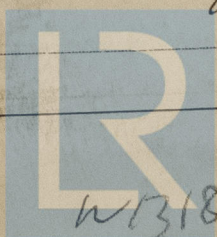
+ one field regulator + feeder panel has 1 change over switch, 10 double pole single

throw switches & fuses. Instruments on main switchboard 2 ammeters 2 voltmeters ✓ synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system. Lamp detector ✓

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules. yes ✓

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule. yes ✓



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All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

Marina S.B. & Eng Co Ltd

Electrical Engineers.

Date *29 August 1932*

COMPASSES.

Distance between electric generators or motors and standard compass *120 feet*

Distance between electric generators or motors and steering compass *100 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *0.5* Ampères *12* feet from standard compass *3* feet from steering compass.

A cable carrying *5* Ampères *3* feet from standard compass *7* feet from steering compass.

A cable carrying *✓* Ampères *✓* feet from standard compass *✓* feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *yes*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *yes*

The maximum deviation due to electric currents was found to be *✓* degrees on *✓* course in the case of the standard compass, and *✓* degrees on *✓* course in the case of the steering compass.

Marina

Builder's Signature.

Date *August 29th 1932*

Is this installation a duplicate of a previous case *no* If so, state name of vessel *✓*

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

The electrical installation

has been fitted under special survey in accordance with the requirements of the Rules and approved plans; the workmanship and materials are good & on completion the installation was tested under full working conditions and found to be efficient & eligible in my opinion to have the record of ELECTRIC LIGHT.

It is submitted that this vessel is eligible for THE RECORD. Elec. light.

cm
4/10/32

Total Capacity of Generators *55* Kilowatts.

The amount of Fee ... *652.96* ... £ ... : When applied for, *2.9.1932*

Travelling Expenses (if any) *See Hull Rpt.* : When received, *3.9.1932*

Committee's Minute

Assigned

Elec. Lt.

A. P. Garnett
Surveyor to Lloyd's Register of Shipping.