

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

23 SEP 1929

Date of writing Report 20th Aug. 1929 When handed in at Local Office

19

Port of

Kobe.

No. in Survey held at Kobe.
Reg. Book.Date, First Survey 9th July 1929. Last Survey 15th Aug. 1929.
(Number of Visits 8.)

on the Steel Single Screw Motorship "HINO MARU"

Tons { Gross 2666
Net 1604.

Built at Kobe.

By whom built Mitsubishi Zosen Kaisha Yard No. 188 When built 1929

Owners Nippon Shokuen Kaizo Kabushiki Kaisha Port belonging to Larumi.

Electric Light Installation fitted by Mitsubishi Zosen Kaisha, Contract No. 188 When fitted 1929.

System of Distribution

Two wire closed circuit.

Pressure of supply for Lighting 225 volts, Heating 225 volts, Power 225 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 overload 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 YES, is an adjustable regulating resistance fitted in series with each shunt field YES.

Are all terminals accessible and clearly marked YES, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited YES. Are the lubricating arrangements of the generators as per Rule YES.

Position of Generators Bottom engine room platform starboard side.

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 axis 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 Bottom engine room platform, starboard side.

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, incombustible non-absorbent materials ENAMELLED MARBLE, is all insulation of high dielectric strength and of permanently high insulation resistance YES, if semi-insulating material is used, are all conducting parts connected to BOTH poles

insulated from the slab with mica or micanite and the slab similarly insulated from its framework YES, and is the frame effectively earthed YES. Are the following fittings as per Rule, viz.:— 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 Each generator

fitted with double pole circuit breaker, suitable connected with equalizer leads, with overload & reverse current release & double pole switch & overload release.

Instruments on main switchboard 3 ammeters 2 voltmeters 2 pilot lamps 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 2 earth lamps & switches.

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

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.



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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office?

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.

B. Miyazawa

Electrical Engineers.

Date *20th Aug 1929.*

COMPASSES.

Distance between electric generators or motors and standard compass *wireless motor 12'-5"*

Distance between electric generators or motors and steering compass " " *7'-6"*

The nearest cables to the compasses are as follows:—

A cable carrying *6.5* Amperes *12'-5"* feet from standard compass *7'-6"* feet from steering compass.

A cable carrying — Amperes — feet from standard compass — feet from steering compass.

A cable carrying — Amperes — feet from standard compass — feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power. *No.*

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

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.

R. Nakamura

Builder's Signature.

Date *20th Aug 1929.*

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, &c.)

The Electrical Installation reported upon herein, has been constructed under special survey & agrees with the approved plan & Rule requirements. The workmanship & materials employed are good. In my opinion the vessel should be awarded The Highest class.

*It is submitted that
this vessel is eligible for
THE RECORD.*

See Light.

25th

24/9/29

Total Capacity of Generators *200* Kilowatts

The amount of Fee ... *£568-* : *When applied for, 15th Aug 1929.*

Travelling Expenses (if any) *See Hull Rept.* : *When received, 28.10.29*

Committee's Minute *FRI. 27 SEP 1929*

Assigned

See Light

K. Kimber

Surveyor to Lloyd's Register of Shipping.

Im. 924.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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