

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2 JUL 1929

Date of writing Report 11 June 1929 When handed in at Local Office

Port of Kobe

No. in Survey held at Yama Reg. Book.

Date, First Survey 26-3-29

Last Survey 3RD JUNE 1929

(Number of Visits 12)

on the Steel twin screw motorship "HAKONESAN MARU"

Tons { Gross 6674
Net 4086

Built at Yama

By whom built Mitsui Bussan Kaisha Yard No. 151

When built 1929

Owners Mitsui Bussan Kaisha

Port belonging to Yokohama

Electric Light Installation fitted by Mitsui Bussan Kaisha

Contract No. 151 When fitted 1929

System of Distribution

Two wire closed circuit

Pressure of supply for Lighting 220V 100 in E.R. volts, Heating 220 V volts, Power 220 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

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

Platform in thrust recess, 11'-9" high from E.R. platform

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 Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Marble Slabs, if semi-insulating material is used, are all conducting parts connected to one pole

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 switch & circuit breaker with overload & reverse current release suitably connected with equalizing leads as per Rule requirement. Outgoing circuit fitted with double pole switch & fuse

Instruments on main switchboard 5 ammeters 3 voltmeters 6 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 Two earth lamps & switches

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

Protection and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes



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Lloyd's Register
Foundation

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.

E. Maeda.

Electrical Engineers.

Date *31.5.29.*

COMPASSES.

Distance between electric generators or motors and standard compass

30' - 0"

Distance between electric generators or motors and steering compass

30' - 0"

The nearest cables to the compasses are as follows:—

A cable carrying *24* Amperes *20* feet from standard compass *15* feet from steering compass.

A cable carrying *60* Amperes *—* feet from standard compass *10* feet from steering compass. (*ON POOP*)

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

Yes

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

no

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.

J. Ukas
Builder's Signature.

Date

Is this installation a duplicate of a previous case

Yes

If so, state name of vessel

M/S "Hakubasen Maru"

Kobe Rpt No 6368

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

The electrical equipment

referred to herein has been installed under special survey. The materials + workmanship employed are good.

In my opinion this vessel should be awarded the highest class for her electrical equipment.

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

27/7/29

Total Capacity of Generators *266* Kilowatts

The amount of Fee ...

¥421:—

When applied for,

18 June 1929,

Travelling Expenses (if any)

See Hull Rpt

When received,

28.10.29

W. Kimber + Clive Bell
Surveyor to Lloyd's Register of Shipping.

FRI. 4 OCT 1929

Committee's Minute

FRI. 5 JUL 1929

Assigned

Elec Light