

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 8 JAN 1929

Date of writing Report 22-12-1928. When handed in at Local Office 10 Port of Kobe.

No. in Survey held at Sama. Date, First Survey 11th Oct 1928 Last Survey 6th Dec. 1928
Reg. Book. (Number of Visits 12)

on the Steel Twin Screw Motorship "HAKUBASAN MARU"

Tons { Gross 6651
Net 4071

Built at Sama, By whom built Mitsui Bussan Kaisha Yard No. 150 When built 1928.

Owners Mitsui Bussan Kaisha Port belonging to Tokio

Electric Light Installation fitted by Mitsui Bussan Kaisha, Contract No. 150 When fitted 1928.

System of Distribution Two wire closed circuit.

Pressure of supply for Lighting 220 V. 100 in F.R. ✓ volts, Heating 220, ✓ 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. Are the lubricating arrangements of the generators as per Rule YES. ✓

Position of Generators Bottom platform starboard side in engine 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 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 After end of 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. ✓

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, double pole fuse, double pole circuit breaker with overload & reverse current release suitably connected with equalizing leads as per Rule requirements.

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 ✓

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



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009459-009468-0423 1/2

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

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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.

D. Taylor

Electrical Engineers.

Date

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* Ampères *20* feet from standard compass *15* feet from steering compass.

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

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 *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.

S. Ukar

Builder's Signature.

Date

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 equipment*)

referred to Lerici has been installed under special survey. The materials & workmanship employed are good.

In our 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

11/1/29

Total Capacity of Generators *266* Kilowatts

The amount of Fee ... *£405:-* : When applied for, *14 Dec 1928*

Travelling Expenses (if any) *See Hull Rpt.* When received, *23/4/29*

W. K. Smith & R. T. Hammett
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 15 JAN 1929*

Assigned

Elec Light



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