

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

MAY 1927

Date of writing Report 6-5-1927 When handed in at Local Office 19 Port of Kobe.

Survey held at Sama. Date, First Survey 5-2-27. Last Survey 23-3-1927  
Reg. Book. (Number of Visits 12)

on the Steel Single Screw Motorship "KOYASAN MARU" Tons { Gross 1998.  
Net 1133.

Built at Sama. By whom built Mitsui Bussan Kaisha Yard No. 131 When built 1927-3

Owners Mitsui Bussan Kaisha Port belonging to Kobe.

Electric Light Installation fitted by Mitsui Bussan Kaisha Contract No. 131 When fitted 1927.

System of Distribution Two lines Closed Circuit. ✓

Pressure of supply for Lighting 220 volts, Heating 220 volts, Power 220 volts.

Direct or Alternating Current, Lighting Direct. ✓ Power Direct. ✓

Alternating current system, state frequency of periods per second ✓

Is 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 ✓

Are there more than one generator is fitted are they arranged to run in parallel YES. ✓, is an adjustable regulating resistance fitted in

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,

short circuited YES. ✓ Are the lubricating arrangements of the generators as per Rule YES.

Position of Generators Bottom engine room platform. 66 KW. starboard side 33 KW. port side.

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

Are they 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.

Are the bedplates and frames of the generating plant efficiently earthed YES. ✓ are the prime movers and

respective generators in metallic contact YES.

Where are the Switch Boards, where placed Port side fore end of engine room 6'-0" above bottom platform.

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

one on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard same compartment

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

work 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 No (panels of marble) ✓, if semi-insulating material is used, are all conducting parts connected to one pole

isolated from the slab with mica or micanite and the slab similarly insulated from its framework YES. ✓, and is the

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

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

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 circuit breaker plus

overload release & reverse current release. The latter circuit breakers are suitably

connected with equalizer leads as per rule requirements. 4 ammeters. 2 voltmeters. 2 pilot lamps synchronising device for paralleling purposes.

For Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Two earth lamps

switches.

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

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



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.

Installation carried out by builders.

Electrical Engineers.

Date ✓

#### COMPASSES.

Distance between electric generators or motors and standard compass *No standard compass*

Distance between electric generators or motors and steering compass *28'-0"*

The nearest cables to the compasses are as follows:—

A cable carrying *184* Amperes — feet from standard compass *28'-0"* feet from steering compass.

A cable carrying *20* Amperes — feet from standard compass *20'-0"* 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 *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. W. Kai*

Builder's Signature.

Date *5.4.27*.

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.)

*This installed electrical plant has been constructed & fitted on board the vessel under special survey & in accordance with the rule requirements, tested under working conditions & found satisfactory.*

*In my opinion this plant is eligible for the highest class.*

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

Total Capacity of Generators *99* Kilowatts

The amount of Fee ... *£ 75 N 315 00* When applied for, 19...

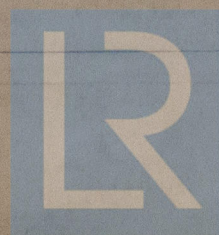
Travelling Expenses (if any) *£ See Full Rpt* When received, 19...

Committee's Minute *FRI. 6 MAY 1927*

Assigned

50,1223—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

*W. Kimber*  
Surveyor to Lloyd's Register of Shipping.



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