

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

3 JAN 1927

Date of writing Report 19-11-1926 When handed in at Local Office

19

Port of

KOBE

No. in Survey held at

HARIMA

Date, First Survey

1<sup>st</sup> October 1926

Last Survey

19<sup>th</sup> November 1926

Reg. Book.

(Number of Visits.....2.....)

on the

Jarin Screw Motorship

YAHIKO MARU.

Tons

Gross

Net

Built at

HARIMA

By whom built

KOBE STL WKS. HARIMA OKYO.

Yard No.

111

When built

1926

Owners

ITAYA MIYAKICHI

Port belonging to

KOBE.

Electric Light Installation fitted by

SHIBAVRA ENG WKS + HARIMA OKYO.

Contract No.

111

When fitted

1926.

## System of Distribution

Two-WIRE.

Pressure of supply for Lighting

220

volts, Heating

220

volts, Power

220

volts.

Direct or Alternating Current, Lighting

DIRECT CURRENT

Power

- Dito -

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

ENGINE ROOM.

PORT &amp; STARBOARD SIDES.

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

ENGINE ROOM.

AFT END.

UPPER 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

✓

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

YES.

, 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

✓

, and is the

frame effectively earthed

✓

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

✓

, individual fuses to voltmeter, pilot or earth lamp

, connections of switches

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

EACH GENERATOR HAS KNIFE SWITCH + AIR CIRCUIT BREAKER, AND EQUALIZER SWITCH INTERLOCKED WITH MAIN CIRCUIT

BREAKER.

Instruments on main switchboard

11

ammeters

3

volts meters

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.

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

YES.



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

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Foundation



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

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

The foregoing is a correct description.

*Skasny* Electrical Engineers.  
The Kobe Steel Works, Ltd., Harima Dockyard.

Date

#### COMPASSES.

Distance between electric generators or motors and standard compass *NEAREST MOTOR - 30 ft. GENERATOR - 175 ft.*

Distance between electric generators or motors and steering compass *" " - 25 ft. " 120 ft.*

The nearest cables to the compasses are as follows:—

A cable carrying *1.4* Ampères *10* feet from standard compass *10* feet from steering compass.

A cable carrying Ampères feet from standard compass 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.

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.

*A. Mikami* Builder's Signature.  
The Kobe Steel Works, Ltd., Harima Dockyard.

Date *27/11/26.*

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 installation has been constructed & installed under special survey  
& in accordance with the Rules, tried under working conditions  
& found satisfactory.*

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

Total Capacity of Generators *330* Kilowatts

The amount of Fee ... *Yes 596<sup>00</sup>/<sub>100</sub>* { When applied for, *19*

Travelling Expenses (if any) £ *29.12.26*

When received, *29.12.26*

*J. McCallan*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

*FRI. 7 JAN 1927*

Assigned *Elec. light*