

Rpt. 13.

No. 4588.

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 22 Sept.

1930. When handed in at Local Office

22/9/1930

Port of YOKOHAMA

No. in Survey held at

YOKOHAMA

Date, First Survey 16<sup>th</sup> JulyLast Survey 15<sup>th</sup> Sept 1930

Reg. Book.

on the Steel T. Sc. M.V. "KWANTO MARU"

Tons

Gross 8601

Net 5195

Built at

Yokohama

By whom built

Yokohama Dock Co. Ltd Yard No. 179

When built 1930.

Owners

Kishimoto Kisen Kaisha

Port belonging to Fuchu.

Electric Light Installation fitted by

Yokohama Dock Co. Ltd

Contract No. 179

When fitted 1930.

Is the Vessel fitted for carrying Petroleum in bulk

No.

System of Distribution

Two wire

Pressure of supply for Lighting

100

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 rating

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, clearly marked, and furnished with sockets

yes.

, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched

yes.

Are the lubricating arrangements of the generators as per Rule

yes.

Position of Generators

Bottom platform of Engine room forward.

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

, are the generators protected from mechanical injury and damage from water, steam or oil

yes.

are their axes 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

Forward end of Engine room. 2nd 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, non-ignitable 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 insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

✓

and is the frame effectively earthed

yes

Are the fittings as per Rule regarding:— 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

One double pole circuit breaker. For outgoing circuits 28 double pole single throw switches with fuses.

Instruments on main switchboard

9

ammeters

5

volts

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

Earth lamps.

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

yes.

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

yes.



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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.

*R. Miyake* Electrical Engineers.

Date *18<sup>th</sup> Sept 1930*

#### COMPASSES.

Distance between electric generators or motors and standard compass *Engine room fan motor 30 feet.*

Distance between electric generators or motors and steering compass *" " " " 27 "*

The nearest cables to the compasses are as follows:—

A cable carrying *116* Amperes *8 inches* feet from standard compass *8 inches* feet from steering compass. (Compass Light)

A cable carrying *4* Amperes *13* feet from standard compass *4* feet from steering compass.

A cable carrying *1* Amperes *12* feet from standard compass *6* feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *yes with.*

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.

*T. Tsuchiya*

Builder's Signature.

Date *18<sup>th</sup> Sept 1930*

Is this installation a duplicate of a previous case ☒ If so, state name of vessel ☒

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

*The Electrical machinery and installation of this vessel have been fitted aboard under special survey. Materials and workmanship good.*

*On completion of fitting all tried under full working conditions, insulation tests etc. carried out and all found in order.*

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

*27/10/30*

Total Capacity of Generators *425* Kilowatts.

The amount of Fee *YEN 8496.00*

When applied for,  
*26/9/30*

Travelling Expenses (if any) £

When received,  
*29.10.30*

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

Committee's Minute

Assigned



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