

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 18 JUN 1929

Date of writing Report 21 May 1929 When handed in at Local Office

Port of Kobe

No. in Survey held at Reg. Book.

Yama

Date, First Survey 11 April 1929

Last Survey 16 May 1929

(Number of Visits 8)

on the steel single screw motor ship "TENSAN MARU"

Tons { Gross
Net

Built at

Yama

By whom built

Mitsui Bussan Kaisha

Yard No. 159

When built 1929

Owners

Daiei Kisen Kaisha

Port belonging to

Daiei

Electric Light Installation fitted by

Mitsui Bussan Kaisha

Contract No. 159

When fitted 1929

System of Distribution

two wire close circuit

Pressure of supply for Lighting 220, 100w E.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 ✓

Generators, do they comply with the requirements regarding overload ✓

Yes ✓

are they compound wound ✓

Yes ✓

are they over compounded 5 per cent. ✓, 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

Lower E.R. platform ✓

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

for bulkhead of E.R. port side

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 ✓

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 D.P. Switch + D.P. circuit breaker with overload + reverse current release + suitably connected with equaliser leads as per Rule requirement ✓

Instruments on main switchboard

5

ammeters

3

voltmeters ✓

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

4 Switches

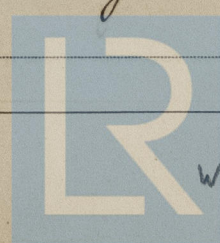
two earth lamps

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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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.

S. Tagui.

Electrical Engineers.

Date

COMPASSES.

Distance between electric ~~generators or~~ motors and standard compass *28 ft. (motor screen)*

Distance between electric ~~generators or~~ motors and steering compass *36 ft. (" ")*

The nearest cables to the compasses are as follows:—

A cable carrying *14* Ampères *16* feet from standard compass *8* 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 *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.

Builder's Signature.

Date

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 equipment referred to*)

herein has been installed under special survey. The materials & workmanship employed are good.

In our opinion this vessel is entitled to the highest Class for her electrical equipment

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

YRm

26.6.29

Total Capacity of Generators *140* Kilowatts

The amount of Fee ... *£365* =

When applied for,

19

Travelling Expenses (if any) £

See Hull Rept.

When received,

26.8.29

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

Committee's Minute

Assigned

Elec Light



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