

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 29. 12. 1933. When handed in at Local Office 19 Port of KOBE.

No. in Survey held at HARIMA. Date, First Survey 4-8-33. Last Survey 1-12-33. 19
Reg. Book. (Number of Visits.....)40258 on the SINGLE SCREW MOTOR VESSEL "KOMAKI MARU" Tons { Gross 6468.06.
Net 3812.37.

Built at HARIMA. By whom built HARIMA S.B. & ENG CO. LD. Yard No. 189. When built 1933.

Owners KOKUSAI KISEN KABUSHIKI KAISHA. Port belonging to OSAKA.

Electric Light Installation fitted by HARIMA S.B. & ENG CO. LD. Contract No. 189. When fitted 1933.

System of Distribution POWER TWO-WIRE SYSTEM. LIGHTING THREE-WIRE SYSTEM.

Pressure of supply for Lighting 110. volts, Heating 220. volts, Power 220. volts.

Direct or Alternating Current, Lighting DIRECT CURRENT. Power DIRECT CURRENT.

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 3 SETS PORT SIDE ENGINE ROOM. 1 SET STARBOARD SIDE ENGINE ROOM TWEEN DECK.

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

NOWOODWORK OR COMBUSTIBLE MATERIAL IN THE VICINITY. YES., 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 FACING AFT.

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.

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 micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework YES.

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. EACH GENERATOR

HAS THREE POLE SINGLE THROW 250V, 1000A HAND OPERATED AUTOMATIC AIR CIRCUIT BREAKERS (MIDDLE POLE

FOR EQUALIZER). OUTGOING CIRCUIT PROPER RANGE TWO POLE HAND OPERATED AUTOMATIC AIR CIRCUIT BREAKERS.

Instruments on main switchboard 19. ammeters 3 voltmeters 1 synchronising device for paralleling purposes.

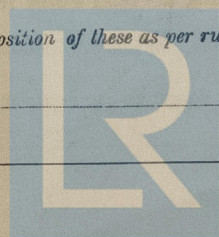
Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system EACH LINE HAS PILOT

LAMP WITH WHITE GLOBE AND SERIES RESISTANCE.

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.

S. Kasuga

Electrical Engineers.

Date 20.12.33

COMPASSES.

Distance between electric generators or motors and standard compass 9 FEET APPROXIMATE FROM FOLLOWUP MOTOR OF AUTO-STEERER.

Distance between electric generators or motors and steering compass 6 " " " " " " " " " " " "

The nearest cables to the compasses are as follows:—

A cable carrying 2.5 Amperes 9 feet from standard compass 6 feet from steering compass.

A cable carrying 0.5 Amperes 6 feet from standard compass 2 feet from steering compass.

A cable carrying 0.5 Amperes 8 feet from standard compass 5 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power YES (WORKING CONDITIONS).

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 the case of the steering compass.

THE HARIMA SHIP-BUILDING
AND ENGINEERING CO., LTD.

S. Kasuga
MANAGING DIRECTOR.

Builder's Signature.

Date 20.12.33

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 installation of this vessel has been fitted under Special Survey in accordance with the Rules and approved plans.

The materials and workmanship are good, on completion the installation was tested under full working conditions, and found to be efficient and eligible in my opinion to have the record of "ELECTRIC LIGHT".

It is submitted that
this vessel is eligible for
THE RECORD

Elec. Light

30/1/34

Total Capacity of Generators 570 Kilowatts.

The amount of Fee ... £ 45 : 15 : 0 :

When applied for,

8th Jan. 1934

When received,

26.4.1934

Travelling Expenses (if any) £ : :

A. E. Munro
Surveyor to Lloyd's Register of Shipping.

TUE. 30 JAN '34

Committee's Minute

Assigned

Im. 128.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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