

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office... 23 JUL 1934

Date of writing Report 19 When handed in at Local Office 19 Port of K O B E

No. in Survey held at KOBE. Date, First Survey 24-3-34. Last Survey 22-6-1934.
Reg. Book. (Number of Visits... 8.....)

on the MOTOR VESSEL "TOR MARU" Tons { Gross 10052
Net 9038

Built at KOBE By whom built KAWASAKI DOCKYARD Co. Yard No. 572 When built 1934.

Owners IINO SHOJI KABUSHIKI KAISHA. Port belonging to NAKAMAIZURU.

Electric Light Installation fitted by KAWASAKI DOCKYARD Co. Contract No. 205. When fitted 1934.

Is the Vessel fitted for carrying Petroleum in bulk YES.

System of Distribution D. C. TWO WIRE.Pressure of supply for Lighting 220 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 STARBOARD SIDE ENGINE ROOM.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 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, CENTRE, MIDDLE 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, 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 EACH GENERATOR CIRCUIT HAS A TRIPLE POLE SINGLE THROW SWITCH WITH AUTOMATIC OVERLOAD AND REVERSE CURRENT RELAYS. THE CENTRE POLE OF THE SWITCH BEING FOR EQUALIZING CONNECTION. ON EACH OUTGOING CIRCUITS TO TURBO-BLOWERS COOLING WATER PUMPS ARE PROVIDED WITH DOUBLE POLE SINGLE THROW SWITCH, A SINGLE POLE AUTOMATIC OVERLOAD CIRCUIT BREAKER AND AMMETER. OTHER POWER MOTORS HAVE DOUBLE POLE SINGLE THROW SWITCH WITH SAFETY CUT OUTS.

Instruments on main switchboard 6 ammeters 4 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 EARTH LAMP WITH A SINGLE POLE SINGLE THROW SWITCH ON EACH POLE.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.

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.

H. Tanaka

Electrical Engineers.

Date 3-7-34.

COMPASSES.

Distance between electric generators or motors and standard compass MAIN GENERATORS 250 FT. WIRELESS GENERATOR 55 FT.

Distance between electric generators or motors and steering compass MAIN GENERATOR 240 FT.

The nearest cables to the compasses are as follows:—

A cable carrying 5 Ampères 24 feet from standard compass 18 feet from steering compass.

A cable carrying 77 Ampères feet from standard compass 15 feet from steering compass.

A cable carrying 20 Ampères 55 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.

H. Tanaka

Builder's Signature.

Date 3-7-34.

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".

Noted

Muv

27.7.34

Total Capacity of Generators 885 Kilowatts.

The amount of Fee £ 53 : 12 : 22/6/1934

Travelling Expenses (if any) £ - : - : 23/6/1934

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

Committee's Minute TUE 31 JUL 1934

Assigned

*See J.C. Rpt
 Kob 8656*

TUE 30 JUL 1934



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