

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 16th Jul 1937 When handed in at Local Office 16th Jul 1937 Port of NAGASAKI.

No. in Survey held at NAGASAKI. Date, First Survey 16th Apr. 37 Last Survey 30th June 1937  
Reg. Book. (Number of Visits.....8)on the Single Screw Motor Vessel "KOZUI MARU" Tons { Gross 7072  
Net 5219

Built at Nagasaki By whom built Mitsubishi J.K.K. Yard No. 672 When built 1937

Owners Takachiho Shosen K.K. Port belonging to Kobe

Electric Light Installation fitted by Mitsubishi J.K.K. Nagasaki. Contract No. / When fitted 1937

Is the Vessel fitted for carrying Petroleum in bulk No

System of Distribution Two wire system D.C.

Pressure of supply for Lighting 220 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 In Main 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 Fore Bulkhead in Main Engine Room.

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 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

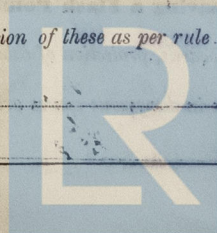
Main Switchgear, description pole switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches A double pole knife switch and a double circuit breaker with over load release, reverse current trip &amp; time-lag device and a single pole equalizer switch interlocked with the circuit breaker as per rule for each of 90 K.W. Dynamo: a double pole knife switch and d.p. fuse or double circuit breaker for each of out going circuits.

Instruments on main switchboard 5 ammeters 2 voltmeters 3 REGULATORS 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 with fuse and switch.

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





**Cable Sockets and other connections,** are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets.

**Cable Runs**, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage. **Yes**

If cables are run in wood casings, are the casings and caps secured by screws..... / , are the cap screws of brass..... / , are the cables run in separate grooves..... / . If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII Yes

**Joints in Cables, state if any, and how made, insulated, and protected** By junction boxes as per Rule.

**Bushes in Beams and Non-watertight Partitions**, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed Yes state the material of which the bushes are made Lead

....., are their connections made as per Rule ..... **Yes** .....

**Emergency Supply.** state position and method of control of the emergency supply and how the generator is driven..... 1

has each navigation lamp an automatic indicator as per Rule Yes

**Fittings** are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight..... **Yes**

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected.....

....., how are the cables lea

where are the controlling switches situated \_\_\_\_\_

Searchlight Lamps, No. of \_\_\_\_\_, whether fixed or portable \_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_

**Arc Lamps,** other than searchlight lamps, No. of \_\_\_\_\_, are their live parts insulated from the frame or case \_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_

**Motors.** are their working parts readily accessible Yes, are the coils self-contained and readily removable for replacement Yes

are the brushes, brush holders, terminals and lubricating arrangements as per Rule Yes, are the motors placed in well-ventilated compartments in which

inflammable gases cannot accumulate and clear of all inflammable material Yes

are they protected from mechanical injury and damage from water, steam or oil Yes are their axes of rotation fore and aft Yes

are they protected from mechanical injury and damage from water, steam or ..... are they protected from .....  
is situated near unprotected speedwork or other combustible material are the motors of the totally enclosed, nine ventilated forced draught, drip or flame proof type

if not of this type, state distance of the combustible material horizontally or vertically above the motors \_\_\_\_\_ and \_\_\_\_\_

\_\_\_\_\_ are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule \_\_\_\_\_ **Yes**

**Control Gear and Resistances, and the generator field and motor speed regulators, starters and controllers connected and tested as per drawings.**

**Lightning Conductors**, where lightning conductors are required, are these fitted as per Rule.....7.....

**Ships carrying Oil having a Flash Point less than 130° F. Have the special requirements of the Rules been complied with regarding** Structures, Deck

section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings.....

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....1

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