

Rpt. 13.

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 6676

Date of writing Report 28<sup>th</sup> Sept 1929 When handed in at Local Office 19 Port of Kobe Received at London Office -4 NOV 1929

No. in Survey held at Yama Date, First Survey 5.4.29 Last Survey 24.9/1929  
Reg. Book. on the Single screw motorship "RONSAN MARU" (Number of Visits 13)

Built at Yama By whom built Mitsui Bussan Kaisha Yard No. 162 Tons { Gross  
Owners Dairen Kisen Kaisha Port belonging to Dairen When built 1929

Electric Light Installation fitted by Mitsui Bussan Kaisha Contract No. 162 When fitted 1929

System of Distribution two wire  
Pressure of supply for Lighting 220, 100 in M.R. volts, Heating 220  
Direct or Alternating Current, Lighting direct volts, Power 220  
If alternating current system, state frequency of periods per second Power direct volts.

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 overload 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 and clearly marked yes, are they so spaced or shielded that they cannot be accidentally earthed.  
or short circuited yes  
Position of Generators lower M.R. platform Are the lubricating arrangements of the generators as per Rule yes  
is the ventilation in way of the generators satisfactory yes

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators  
and are they clear of all inflammable material yes  
are their axis of rotation fore and aft yes, are the generators protected from mechanical injury and damage from water, steam or oil yes  
Earthing, are the bedplates and frames of the generating plant efficiently earthed yes  
their respective generators in metallic contact yes are the prime movers and

Main Switch Boards, where placed M.R. for 1st bulkhead p. s.  
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 micanile and the slab similarly insulated from its framework  
frame effectively earthed yes, and is the

accessibility of all parts yes Are the following fittings as per Rule, viz.:— spacing or shielding of live parts bars yes, absence of fuses on back of board yes, proportion of omnibus  
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 equalizer 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 two earth lamps & switches.

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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W1312-0234 1/2



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

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
6	BALLAST PUMP ... ..	1	.0814	80	20	60	160	rubber	armoured
6	MAIN BILGE LINE PUMPS ...	1	"	"	"	36	"	"	"
	<del>GENERAL SERVICE PUMP</del> ...								
	<del>EMERGENCY BILGE PUMP</del> ...								
See 6	SANITARY PUMP ... ..								
4	COMBINED L.O. & CIRC. SEA WATER PUMPS }	1	.0611	60	20	80	60	new m. & 97 amp. filter 2.37	
	CIRC. FRESH WATER PUMPS								
	<del>AIR COMPRESSOR</del> ... ..								
8	FRESH WATER PUMP ... ..	1	.0305	30	20	2	200	"	"
	ENGINE TURNING GEAR ...	1	"	"	"	12	"	"	"
	<del>ENGINE REVERSING GEAR</del> ...								
See 4, 5	LUBRICATING OIL PUMPS								
5	OIL "FUEL TRANSFER PUMP } AND	1	.0611	60	20	60	80	"	"
16	WINDLASS ... ..	1	.1524	150	20	164	300	"	"
15	WINCHES, FORWARD ... ..	4	.3155	200, 1/4	20	340	180	"	"
14	WINCHES, AFT ... ..	4	"	"	"	"	300	"	"
12	STEERING GEAR ... ..	1	.0305	30	20	36	500	"	"
8	WORKSHOP MOTOR ... ..	1	"	"	"	8	200	"	"
	<del>VENTILATING FANS</del> ... ..								



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.

*E. Maeda.* Electrical Engineers.

Date

#### COMPASSES.

Distance between electric ~~generators or~~ motors and standard compass

*28 feet (motor system)*

Distance between electric ~~generators or~~ motors and steering compass

*36 feet ( " " )*

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.

*P. Utai*

Builder's Signature.

Date

Is this installation a duplicate of a previous case *Yes*

If so, state name of vessel

*m/v "KON SAN MARU"*

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 my opinion this vessel is entitled to the highest class for her electrical equipment.*

It is submitted that this vessel is eligible for THE RECORD.

*Chas. Light*

*J. B. A. 8/11/29*

Total Capacity of Generators

*105* *140* Kilowatts

The amount of Fee ...

*¥324:—*

When applied for,

19

Travelling Expenses (if any)

*See hull rpt.*

When received,

*8.1.30* 19

*Clive Bell*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

*FBI. 8 NOV '29*

Assigned

*Chas. Light*



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