

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 13-4-1927 When handed in at Local Office 18/4/1927 Port of Kobe

No. in Survey held at Harima. Date, First Survey 14/1/27. Last Survey 6/4/1927
Reg. Book. (Number of Visits 12)

on the Single Screw Motorship "CHOAN MARU" Tons { Gross 2607
Net 1899.

Built at Harima. By whom built Kobe Steel Works Harima. Yard No. 123 When built 1927.

Owners Osaka Shosen Kaisha. Port belonging to Osaka.

Electric Light Installation fitted by Kobe Steel Works Harima. Dockyard Contract No. 123 When fitted 1927.

See also BREMEN Certificate dated 10/8/26 No 319.322.323.

System of Distribution Two CONDUCTOR INSULATED SYSTEM.

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 overload, 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 ENGINE ROOM BOTTOM PLATFORM. 2 STARBOARD + 1 PORT SIDE. Are the lubricating arrangements of the generators as per Rule

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 YES ✓, 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 ENGINE ROOM STARBOARD SIDE 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 YES ✓

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES ✓, if situated near unprotected are they protected from mechanical injury and damage from water, steam or oil YES ✓

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards and YES ✓, are they constructed wholly of durable, incombustible non-absorbent materials YES (MARBLE) ✓, 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 YES ✓, and is the insulated from the slab with mica or micanite and the slab similarly insulated from its framework YES ✓

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 ✓

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 DOUBLE POLE

CIRCUIT BREAKER WITH INTERLOCKED EQUALISER SWITCH + DOUBLE POLE KNIFE SWITCH FOR

EACH GENERATOR.

Instruments on main switchboard 3 ammeters 2 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 1 EARTH LAMP WITH CHANGE SWITCH TO POSITIVE & NEGATIVE POLES.

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 ✓



© 2021

Lloyd's Register Foundation

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Bureau?

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.				
	BALLAST PUMP	1	0.1184 ✓	19	85 No 4	70	32	Rubulch	Lead covered 10 mm
	MAIN BILGE LINE PUMPS ...	1	0.126	7	316 No 18	31.2	40	do.	do.
	GENERAL SERVICE PUMP ...	1	0.1148 ✓	27	" 16	132	30	do.	do.
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP	1	0.126 ✓	7	316 - 18	33	42	do.	do.
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR	1	0.394 x 2 ✓	61	85 No 11	528	200	do.	do.
	FRESH WATER PUMP	1	0.07 ✓	7	316 No 30	13.4	34	do.	do.
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	2	0.07 ✓	7	" - 30	16	104 mean	do	do
	OIL FUEL TRANSFER PUMP	1	do ✓	do	do	do	220	do	do
	WINDLASS	1	0.344 x 2 ✓	19	" - 18	125	200	do	do
	WINCHES, FORWARD	4	0.069 ✓	19	" - 14	105	15 mean	do	do
	WINCHES, AFT	4	do	do	do	do	57 "	do	do
	STEERING GEAR	1	0.325 ✓	7	" - 16	38	300	do	do
	WORKSHOP MOTOR								
	VENTILATING FANS								
	PISTON COOLING WATER PUMP	2	0.126 ✓	7	316 No 18	36	106 mean	do	do
	JACKET " " "	2	0.344 ✓	19	" - 18	47.5	116 "	do	do
	TURBO-BLOWER.	2	0.25 x 2 ✓	67	136 " 13	432	14 "	do	do
	REFRIGERATING COMP.	1	0.0613 ✓	19	" 14	40	132 "	do	do
	" SPARE BRINE PUMP.	1	0.0315 ✓	7	316 No 23	4.8	140	do	do
	CAPSTAN.	1	0.064 ✓	19	" - 14	80	232	do	do

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.

Skeanya

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass *ABOUT 116 ft*

Distance between electric generators or motors and steering compass *" 142 "*

The nearest cables to the compasses are as follows :—

A cable carrying *6.2* Ampères *26* feet from standard compass *20* 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 *✓*

The maximum deviation due to electric currents was found to be *✓* degrees on *✓* course in the case of the standard compass, and *✓* degrees on *Kobe Steel Works,* course in the case of the steering compass.

Harima Ship Yard,

Manager.

A. Mikami 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.)

This installation has been estimated & installed under Special Survey and in accordance with the Rules, tried under working conditions & found satisfactory.

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

Total Capacity of Generators *240.* Kilowatts

The amount of Fee ... *7 375 -* When applied for, *14/4/1927*

Travelling Expenses (if any) £

See Ship Report.

When received, *2/6/27*

McWilliam
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUES. 24 MAY 1927*

Assigned *Elec light*