

Rpt. 13.

No. 1823

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 6th April 1932 When handed in at Local Office 6th April 1932 Port of NAGASAKI. Received at London Office 9 MAY 1932

No. in Survey held at NAGASAKI. Date, First Survey 19th Jan'y. Last Survey 24th March 1932.

Reg. Book. 42659 on the Steel Twin Screw Steamer "USSURI MARU". (Number of Visits 8)

Built at Nagasaki. By whom built Mitsubishi Zosen Kaisha Yard No. 500 Tons { Gross 6385.57 Net 3789.10 When built 1932-3mo

Owners Osaka Shosen Kabushiki Kaisha. Port belonging to Osaka. Japan.

Electric Light Installation fitted by Mitsubishi Zosen Kaisha, Ltd. Contract No. - When fitted 1932

System of Distribution Two wire system.

Pressure of supply for Lighting 110 volts. Heating 110 volts. Power 110 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 Main engine room, Starboard side - 2nd 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 / 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 Main engine room. 2nd Deck - Starboard side 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 / 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

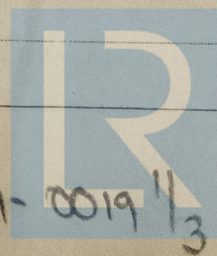
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches A double pole circuit breaker with overload release, reverse current trip and time-lag device and single pole equalizer switch interlocked with the circuit breaker as per rule, and a double pole knife switch for each generator: A double pole knife switch and enclosed fuse on each pole for each out going circuit.

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 Lamp.

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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W1331-001913

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.				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR—								
	(a) MOTOR GENERATOR...								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS								

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.

NAGASAKI WORKS, MITSUBISHI ZOSSEN KAISHA, LTD.

[Signature]
GENERAL MANAGER.

Electrical Engineers.

Date APR 15 1932

COMPASSES.

Distance between electric generators or motors and standard compass 70 feet from Motor-Generator for Wireless Telegraph.

Distance between electric generators or motors and steering compass 70 feet from Motor-Generator for Wireless Telegraph.

The nearest cables to the compasses are as follows:—

A cable carrying 0.2 Ampères 1 feet from standard compass 1 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. Yes

The maximum deviation due to electric currents was found to be Nil degrees on Any and every course in the case of the standard compass, and Nil degrees on Any and every course in the case of the steering compass.

NAGASAKI WORKS, MITSUBISHI ZOSSEN KAISHA, LTD.

[Signature]
GENERAL MANAGER.

Builder's Signature.

Date APR 15 1932

Is this installation a duplicate of a previous case. Yes If so, state name of vessel "Ural Maru" Nag.Rpt No.1676.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The materials and workmanship are good and the installation has been fitted in accordance with the Rules, tested under full working conditions and found satisfactory.

Plans sent under separate cover of:- Wiring Diagram of Power. Lighting & Cabin Fan.

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

elec. light

[Signature]
29/4/32

Total Capacity of Generators 75 Kilowatts.

The amount of Fee ... £ 340:80 : When applied for, 24. 3. 1932

Travelling Expenses (if any) £ : When received, 28. 3. 1932

[Signature]
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 13 MAY 1932

Assigned

elec. light

Rpt. No.

Port of NAGASAKI.

Continuation of Report No. 823 dated 6th April 1932 on the

Steel Twin Screw Steamer "USSURI MARU".

LIGHTING & HEATING CONDUCTORS.

Ref. No.	Description.	No. of Each Cond.	Effective Area of Each Cond. Sq. Ins.	Composition of Strand No. Dia.	Total Maximum Current Amperes	Approximate Length (L & R) feet	Insulated with	How Protected
1	No.2 Dynamo	2	.40551	61 .092	228	95	Rubber	Lead covered and armoured
2	Equalizer	1	"	"	"	47	"	"
6	Fuse box icecream freezer	2	.01267	7 .048	24.5	240	"	"
8	1.76 KW Electric toaster	2	.00713	7 .036	16	80	"	"
9	Wireless switchboard	2	.01267	7 .048	19	260	"	"
10	Secondary battery	2	.00701	7 .036	19	10	"	Lead covered.
12	1 KVA Gen. for Wireless Tel.	2	"	7 "	10	100	"	L.C & A.
14	1/2 KVA Gen. for "	2	"	7 "	2.5	100	"	"
18	Shore connection	2	.06	19 .064	"	200	"	Lead covered
19	No.1 Main distribution board	2	.1168	37 "	92.3	230	"	L.C & A.
20	No.1 Submain board	2	.03438	19 .048	44.5	150	"	Lead covered
21	No.2 " "	2	"	"	47.8	4	"	"
22	No.1 Dist. board	2	.00701	7 .036	15	100	"	"
23	No.2 " "	2	"	7 "	20.4	4	"	"
24	No.3 " "	2	"	7 "	9.1	4	"	"
25	No.4 " "	2	"	7 "	12.5	4	"	"
26	No.5 " "	2	"	7 "	10.7	4	"	"
27	No.6 " "	2	"	7 "	10.8	4	"	"
28	No.7 " "	2	"	7 "	13.8	4	"	"
29	No.3 Submain board	2	.02214	7 .064	31.5	180	"	L.C & A.
30	No.8 Dist. board	2	.00701	7 .036	7.9	4	"	Lead covered
31	No.9 " "	2	"	7 "	10.4	20	"	"
32	No.10 " "	2	"	7 "	13.2	4	"	"
33	No.4 Submain board	2	.02214	7 .064	38.6	180	"	L.C & A.
34	No.11 Dist. board	2	.01267	7 .048	13.8	250	"	Lead covered
35	No.12 " "	2	.00701	7 .036	14.8	4	"	"
36	Socket for Kinetograph	2	.00322	1 .064	10	4	"	"
37	No.5 Submain board	2	.03438	19 .048	48.6	130	"	L.C & A.
38	No.13 Dist. board	2	.00701	7 .036	10.7	250	"	Lead covered
39	No.14 " "	2	"	7 "	7.4	4	"	"
40	No.15 " "	2	"	7 "	8.4	70	"	"
41	No.16 " "	2	"	7 "	9.5	300	"	"
42	No.17 " "	2	"	7 "	12.6	230	"	"
43	No.2 Main Dist. board	2	.1168	37 .064	95.4	130	"	L.C & A.
44	No.6 Submain board	2	.06112	19 "	61.9	70	"	Lead covered
45	No.7 " "	2	.01267	7 .048	33.5	4	"	"
46	No.18 Dist. board	2	.00701	7 .036	13.2	200	"	"
47	1 K.W. Electric heater	2	"	7 "	10.4	370	"	"
48	No.19 Dist. board	2	"	7 "	10.8	60	"	"
49	No.20 " "	2	"	7 "	12.2	4	"	"
50	No.21 " "	2	"	7 "	9.7	250	"	"
51	Cut-out for 3rd Cl. day light	2	.00322	1 .064	5.6	120	"	"
52	No.22 Dist. board	2	.00701	7 .036	16.1	4	"	"
53	No.23 " "	2	"	7 "	17.4	4	"	"
54	No.8 Submain board	2	.01267	7 .048	29.8	40	"	L.C & A.
55	No.24 Dist. board	2	.00701	7 .036	11.2	4	"	"
56	No.25 " "	2	"	7 "	4.4	4	"	"
57	No.26 " "	2	"	7 "	14.2	4	"	"
58	Cut-out for Eng. Rm. Bus-bar lamp	2	.00181	1 .048	2.2	40	"	"
59	No.3 Main dist. board	2	.02214	7 .064	31.2	130	"	"
60	No.9 Submain board	2	.00701	7 .036	15.6	120	"	Lead covered
61	No.10 " "	2	"	7 "	15.6	100	"	"
62	Fore mast cargo lamp	2	.00181	1 .048	6	15	"	L.C & A.
63	No.1 hatch cargo cluster	2	"	1 "	4.8	20	"	"
64	Flex. cord for cargo lamp	2	.00475	168 .006	3	160	"	Hemp braided flexible cord
65	" " " cluster	2	"	"	2.4	160	"	"
66	Main mast cargo lamp	2	.00181	1 .048	6	20	"	L.C & A.
67	No.4 hatch cargo cluster	2	"	1 "	4.8	20	"	"
68	Flex. cord for cargo lamp	2	.00475	168 .006	3	160	"	H.B.F.C.
69	" " " cluster	2	"	"	2.4	160	"	"
70	Navigation lamp	2	.00701	7 .036	3.2	440	"	L.C & A.
71	Fore mast lamp	4	.00322	1 .064	.6	580	"	"
72	Starboard side lamp	4	"	1 "	.6	120	"	"
73	Port side lamp	4	"	1 "	.6	40	"	"
74	Main mast lamp	4	"	1 "	.6	700	"	"
75	Stern lamp	4	"	1 "	.6	700	"	"
76	No.11 Submain board	2	.03438	19 .048	55	120	"	"
77	No.27 Dist. board	2	.00322	1 .064	7	180	"	Lead covered
78	No.28 " "	2	"	1 "	10.85	100	"	"
79	No.29 " "	2	"	1 "	6	220	"	"
80	No.30 " "	2	"	1 "	8	60	"	"
81	No.31 " "	2	"	1 "	5.25	220	"	"
82	No.32 " "	2	"	1 "	4.9	80	"	"
83	No.33 " "	2	.00701	7 .036	13	4	"	"

MOTOR CONDUCTORS.

3	Fuse box for Ord. fan motor	2	.1168	37 .064	90	180	"	L.C & A.
4	No.1 2HP Ord. fan motor	2	.00701	7 .036	20	240	"	Lead covered
5	No.1 2.5HP Ord. fan motor	2	.01267	7 .048	25	340	"	"
7	1 HP Icecream freezer motor	2	.00713	7 .036	8.5	10	"	"
11	Motor for 1 KVA Generator	2	.00701	7 "	17	100	"	L.C & A.
13	Motor for 1/2 KVA Generator	2	"	7 "	19	100	"	"
15	3HP Turbine turning motor	2	.01267	7 .048	31	140	"	"
16	1.6HP Lub. oil purifier motor	2	.00701	7 .036	14.5	128	"	"
17	2 HP Eng. Rm. Vent. fan motor	2	"	7 "	20	50	"	"

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This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some faint smudges and discoloration, characteristic of old paper. A dark, rectangular object, possibly a book binding or a piece of tape, is visible along the right edge. There is no text or other markings on the page.