

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 8th Apr 1935 When handed in at Local Office 8th Apr 1935 Port of NAGASAKI.
 Received at London Office.....

No. in Survey held at NAGASAKI. Date, First Survey 6th Feby. Last Survey 30th March 1935
 Reg. Book. (Number of Visits.....7.....)

90527 on the Steel Twin Screw Steamer "N E K K A M A R U".
 Tons { Gross 6783.97
 Net 3911.40

Built at Nagasaki By whom built Mitsubishi Jukogyo K. Yard No. 594 When built 1935

Owners Osaka Shosen Kabushiki Kaisha. Port belonging to Osaka.

Electric Light Installation fitted by Mitsubishi Jukogyo Kaisha. Nagasaki Contract No. / When fitted 1935

Is the Vessel fitted for carrying Petroleum in bulk No.

System of Distribution Two wire system.

Pressure of supply for Lighting 110 volts, Heating / 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 / No, 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.

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, aft, near Generators.

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

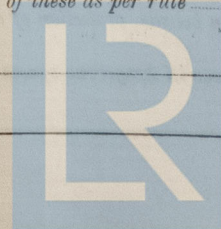
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches A double pole over-load circuit breaker and a double pole knife switch for each generator, a double pole knife switch and enclosed fuse for each of out-going circuits.

Instruments on main switchboard Two ammeters One 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 By lamps.

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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Lloyd's Register
 Foundation

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

[illegible]

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 JUKOGYO KABUSHIKI KAISHA.

T. Inagaki Electrical Engineers. Date **APR 10 1935**
GENERAL MANAGER.

COMPASSES.

Distance between electric generators or motors and standard compass **4.5 Meters from Fire detector fan-motor on wheel house top.**
Distance between electric generators or motors and steering compass **23 meters from Ventilator fan motor on aft winch platform.**
The nearest cables to the compasses are as follows:—

A cable carrying **0.2** Ampères **0.3 meters** from standard compass **0.3 meters** 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 JUKOGYO KABUSHIKI KAISHA.

T. Inagaki Builder's Signature. Date **APR 10 1935**
GENERAL MANAGER.

Is this installation a duplicate of a previous case **Yes** If so, state name of vessel **"Kitsurin Maru"**

Nag.Rpt.No.2014.

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 and overload conditions and found satisfactory.

This case is eligible in our opinion to have the notation of "Electric Lights and Wireless" in the Register Book.

Noted
L.H.
8/5/35. *AB*

Total Capacity of Generators **168** Kilowatts.

The amount of Fee ... £ **34-18-0** : **1. 4. 35**

Travelling Expenses (if any) £ : **10. 4. 35**

Committee's Minute **FRI. 10 MAY 1935**

Assigned *see J.E. Machy Report.*

Rpt. 9a.

Port of **NAGASAKI.**

Continuation of Report No. 2028 dated 8th April 1935 on the

Ref. No.	Description.	Conductors		Composition	Total Maximum	Approximate	Insulated	How
		No. of Strand	per sq. m.	No. Dia.	current amps	Length (L & R) meters.	with.	protected.
1	No.1 Turbo Generator	2	782	91	2.35	727	768	
2	Inter Communication	1	75.3	37	1.53	72.8	130	Rubber
3	No.1 Fuse Bd for Vent.fan.	1	127	19	2.10	179	184	Lead covered
4	5 HP Vent fan motor	1	25.6	19	1.30	47	64	armoured
5	3 HP " "	1	9.45	7	"	30	37	"
6	No.2 Fuse Bd for Cooking App.	2	127.45	37	2.10	192.6	221	Lead covered
7	Hot plate for bakery	1	9.45	7	1.30	25	37	L.C. armoured
8	Toaster for 1st Class pantry	1	9.45	7	1.30	25	37	"
9	7.5 KW Baker oven	1	38.7	19	1.63	75	83	"
10	Turbine turning motor	1	9.45	7	1.30	31	37	"
11	No.3 Fuse board	1	"	7	"	15	"	"
12	1.5 HP Lub.oil purifier	1	4.52	7	.91	"	24	"
13	Eng. Rm vent fan motor	1	9.45	7	1.30	20	37	"
14	Shore connection	1	75.3	37	0.064	100	210	"
15	W.L.T. switchboard	1	25.6	19	1.30	20	64	"
16	Motor for 1 KVA Alternator	1	14.25	7	1.63	20	46	"
17	1 KVA alternator	1	9.45	7	1.30	10	37	"
18	Motor for 1 KVA alternator	1	25.6	19	"	18	64	"
19	1 KVA alternator	1	4.52	7	.91	2.5	24	"
20	Secondary battery	1	25.6	19	1.20	19	64	"
21	Emergency generator	1	38.7	"	1.63	72.8	83	"
22	No.1 Main dist. board	1	65	"	2.10	99.7	118	"
23	No.1 Submain board	1	25.6	"	1.30	60.2	64	"
24	No.1 Dist. board	1	4.52	7	.91	12.8	24	Lead covered
25	No.2 " "	1	"	"	"	6.6	8	"
26	No.3 " "	1	"	"	"	14.8	24	"
27	No.4 " "	1	"	"	"	16	"	"
28	No.5 " "	1	"	"	"	10	"	"
29	No.2 Submain board	1	25.6	19	1.30	39.1	64	"
30	No.6 Dist board	1	4.52	7	.91	14.5	24	L.C. armoured
31	No.7 " "	1	9.45	7	1.30	16.2	37	Lead covered
32	No.8 " "	1	4.52	7	.91	8.4	24	"
33	No.3 Submain board	1	38.7	19	1.63	63.9	83	"
34	No.9 Dist board	1	9.45	7	1.30	19.8	37	L.C.A.
35	No.10 " "	1	4.52	"	.91	8.6	24	L.C.
36	No.11 " "	1	"	"	"	7.9	"	"
37	No.12 " "	1	"	"	"	10.8	"	"
38	No.13 " "	1	"	"	"	31.3	46	"
39	No.4 Submain board	1	14.25	"	1.63	13.6	37	L.C.A.
40	No.14 Dist board	1	9.45	"	1.30	10	24	L.C.
41	Kinematograph	1	4.52	"	.91	17.7	37	"
42	No.15 Dist board	1	9.45	"	1.30	41.5	64	"
43	No.5 Submain board	1	25.6	19	.91	7.6	24	L.C.A.
44	No.16 Dist board	1	4.52	7	"	12	"	L.C.
45	No.17 " "	1	"	"	"	5.1	"	"
46	No.18 " "	1	"	"	"	4.1	"	"
47	No.19 " "	1	"	"	"	"	176	"
48	No.20 " "	1	9.45	"	1.30	12.6	37	"
49	No.2 Main dist board	1	49	19	1.85	91.25	97	L.C.A.
50	No.6 Submain board	1	25.6	"	1.30	54.4	64	L.C.
51	No.21 Dist board	1	4.52	7	.91	7.6	24	"
52	No.22 " "	1	"	"	"	13.3	46	"
53	No.23 " "	1	9.45	"	1.30	16.9	37	L.C.A.
54	No.24 " "	1	4.52	"	.91	11.6	24	L.C.
55	Radio source	1	"	"	"	5	"	L.C.
56	No.7 Submain board	1	25.6	19	1.30	36.85	64	"
57	No.25 Dist board	1	4.52	7	.91	13.55	24	"
58	No.26 " "	1	"	"	"	6.1	"	"
59	No.27 " "	1	9.45	"	1.30	17.2	37	"
60	No.8 Submain board	1	25.6	19	"	36.2	64	"
61	No.28 Dist board	1	4.52	7	.91	13.8	24	L.C.A.
62	No.29 " "	1	"	"	"	10.2	"	"
63	No.30 " "	1	"	"	"	12.2	2	"
64	No.3 Main dist board	1	25.6	19	1.30	31.2	64	"
65	No.9 Submain board	1	9.45	7	"	15.6	37	"
66	Fore mast cargo lamp	1	4.52	"	.91	6	24	L.C.
67	Flex cord for cargo lamp	1	3.11	110	.19	3	15	L.C.A.
68	No.1 hatch cargo cluster	1	4.52	7	.91	4.8	24	Hemp braided
69	Flex cord " "	1	3.11	110	.19	2.4	13	L.C.A.
70	No.2 hatch cargo cluster	1	4.52	7	.91	4.2	24	Hemp braided
71	Flex cord " "	1	3.11	110	.19	2.4	13	L.C.A.
72	No.10 Submain board	1	9.45	7	1.30	15.6	37	Hemp braided
73	Main mast cargo lamp	1	4.52	"	.91	6	24	L.C.
74	Flex cord " "	1	3.11	110	.19	3	13	L.C.A.
75	No.4 hatch cargo cluster	1	4.52	7	.91	4.8	24	Hemp braided
76	Flex cord " "	1	3.11	110	.19	2.4	13	L.C.A.
77	No.11 Submain board	1	25.6	19	1.30	48.9	64	L.C.
78	No.31 Dist board	1	9.45	7	"	24.9	37	H.B.
79	No.32 " "	1	"	7	"	24	"	L.C.A.
80	No.12 Submain board	1	25.6	19	"	25.3	64	"
81	No.33 Dist board	1	4.52	7	.91	12.5	24	L.C.
82	No.34 " "	1	"	"	"	12.8	"	"
83	Navigation light	1	"	"	"	3.2	"	"
84	Fore mast head lamp	1	2.08	1	1.63	0.4	12.9	L.C.A.
85	Starboard side lamp	1	"	1	"	"	"	"
86	Port side lamp	1	"	1	"	"	"	"
87	Main mast lamp	1	"	1	"	"	"	"
88	Stern lamp	1	"	1	"	"	240	"
89	No.13 Submain board	1	38.7	19	"	63.84	83	"
90	No.35 Dist board	1	4.52	7	.91	6.04	24	"
91	No.36 " "	1	"	"	"	9.91	"	L.C.
92	No.37 " "	1	"	"	"	8.85	"	"
93	No.38 " "	1	"	"	"	12.07	"	"
94	No.39 " "	1	"	"	"	6.93	"	"
95	No.40 " "	1	"	"	"	7.26	"	"
96	No.41 " "	1	"	"	"	12.78	"	"