

TUE. JAN. 25 1921

## REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 2994

Port of Kobe Date of First Survey Sept. 3<sup>rd</sup> 20 Date of Last Survey Sept. 24<sup>th</sup> 20 No. of Visits 7  
 No. in on the Iron or Steel S/S. "YPRES MARU" Port belonging to Oh, Harima  
 Reg. Book Built at Oh, Harima By whom Harima Dockyard When built 1920  
 Owners Teikoku Steamship Co. Owners' Address Kobe  
 Yard No. 45 Electric Light Installation fitted by Harima Dockyard When fitted 1920

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

One direct current open type compound dynamo directly coupled with special high speed single engine.

Capacity of Dynamo 136 Amperes at 110 Volts, whether continuous or alternating current Continuous

Where is Dynamo fixed Starboard in Engine Room Whether single or double wire system is used Double

Position of Main Switch Board Side by the Dynamo having switches to groups A, B, C, D, E, F, G of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each Engine + Boiler, Amid + Crew space, Saloon + Bridge, Cargo light, Navigation light fan motor, + Wireless telegraph.

If fuses are fitted on main switch board to the cables of main circuit yes and on each auxiliary switch board to the cables of auxiliary circuits yes and at each position where a cable is branched or reduced in size yes and to each lamp circuit yes

If vessel is wired on the double wire system are fuses fitted to both flow and return wires or cables of all circuits including lamp circuits yes

Are the fuses of non-oxidizable metal yes and constructed to fuse at an excess of 50 per cent over the normal current

Are all fuses fitted in easily accessible positions yes Are the fuses of standard dimensions yes If wire fuses are used are permanent instructions fitted on or near each switch board giving particulars of proper size of fuse for each circuit yes

Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases yes

Total number of lights provided for arranged in the following groups:—

A Engine + Boiler	$3\frac{2}{3}$ lights each of <u>400</u>	candle power requiring a total current of	<u>11.27</u>	Amperes
B Wireless telegraph	<u>3</u> lights each of <u>16</u>	candle power requiring a total current of	<u>38</u>	"
C Amid + Crew	<u>79</u> lights each of <u>16</u>	candle power requiring a total current of	<u>14.36</u>	Amperes
D Saloon + Bridge	<u>46</u> lights each of <u>32</u>	candle power requiring a total current of	<u>12.36</u>	Amperes
E Cargo light	<u>22</u> lights each of <u>1000</u>	candle power requiring a total current of	<u>19.26</u>	Amperes
F Navigation light	<u>13</u> lights each of <u>16</u>	candle power requiring a total current of	<u>7.45</u>	Amperes
G Fan motor	<u>12</u> dia. each of <u>40 watts</u>	candle power requiring a total current of	<u>6.18</u>	"
Mast head light with	<u>2</u> lamps each of <u>32</u>	candle power requiring a total current of	<u>2.04</u>	Amperes
Side light with	<u>3</u> lamps each of <u>32</u>	candle power requiring a total current of	<u>3.06</u>	Amperes
Cargo lights of	<u>2</u> - <u>1000 C.P.</u>	candle power requiring a total current of		
	<u>7</u> - cluster with <u>4 lamp @ 32</u>	candle power, whether incandescent or are lights	<u>incandescent.</u>	

If arc lights, what protection is provided against fire, sparks, &c.

Where are the switches controlling the masthead and side lights placed in the chart room

## DESCRIPTION OF CABLES.

Main cable carrying	<u>136</u> Amperes, comprised of	<u>37</u> wires, each	# <u>16</u> S.W.G. diameter,	<u>0.117</u> square inches total sectional area
Branch cables carrying	<u>11.27</u> Amperes, comprised of	<u>7</u> wires, each	# <u>18</u> S.W.G. diameter,	<u>0.0125</u> square inches total sectional area
Branch cables carrying	<u>14.36</u> Amperes, comprised of	<u>7</u> wires, each	# <u>16</u> S.W.G. diameter,	<u>0.022</u> square inches total sectional area
" " "	<u>7.45</u> " " " " " "	<u>7</u> " " " " " "	# <u>20</u> " " " " " "	<u>0.007</u> " " " " " "
Leads to lamps carrying	<u>12.36</u> Amperes, comprised of	<u>7</u> wires, each	# <u>18</u> S.W.G. diameter,	<u>0.0125</u> square inches total sectional area
" " "	<u>6.18</u> " " " " " "	<u>7</u> " " " " " "	# <u>20</u> " " " " " "	<u>0.007</u> " " " " " "
Cargo light cables carrying	<u>19.26</u> Amperes, comprised of	<u>11</u> wires, each	# <u>16</u> S.W.G. diameter,	<u>0.0354</u> square inches total sectional area
Branch cables carrying	<u>38.00</u> " " " " " "	<u>11</u> " " " " " "	# <u>16</u> " " " " " "	<u>0.0354</u> " " " " " "

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

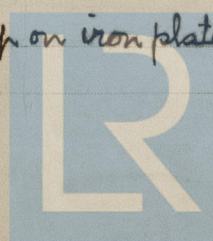
Armoured wires are used in Engine + Boiler room and Cargo space.

Joints in cables, how made, insulated, and protected Cables are all jointed in the joint Boxes which is made of iron and joints are soldered and wound with insulating tape.

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances yes Are all joints in accessible positions, none being made in bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage yes

Are there any joints in or branches from the cable leading from dynamo to main switch board no

How are the cables led through the ship, and how protected Wires are cranked with clip on iron plate which is fastened to beams with bolts.



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