

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 3920.

Port of KOBE.

Date of First Survey 1923 JANY 6TH Date of Last Survey 1923 APRIL 20TH No. of Visits 15.No. in Reg. Book on the ~~Iron~~ Steel

S/S RHINE MARU

YARD NO 481.

Port belonging to KOBE.

Built at KOBE

By whom ~~Kawasaki Dockyard Co Ltd~~ When built 1923.Owners ~~Kawasaki Dockyard Co Ltd.~~ Owners' Address Kobe.Yard No. 481 Electric Light Installation fitted by ~~Kawasaki Dockyard Co Ltd~~ When fitted 1923.**DESCRIPTION OF DYNAMO, ENGINE, ETC.**

Two sets of Compound dynamos, directly connected to the single cylinder automatic cut off vertical enclosed engine, with forced lubrication 8 dia, 6 stroke, 450 R.P.M. and steam pressure 120 lbs.

Capacity of Dynamo 170 Amperes at 100 Volts, whether continuous or alternating current Continuous ✓

Where is Dynamo fixed in the engine room Whether single or double wire system is used double ✓

Position of Main Switch Board in the engine room having switches to groups A, B, C and D of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each 4 sets in the engine room, 1 set in the boiler room, 10 sets on the awning deck, 1 set on the bridge deck and 1 set on the navigation bridge having one main switch on each board.

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 100 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, porcelain and marble are used

Total number of lights provided for 233 arranged in the following groups :—

A	14	lights each of	5	candle power requiring a total current of	2.54	Amperes
B	152	lights each of	16	candle power requiring a total current of	36.10	Amperes
C	61	lights each of	32	candle power requiring a total current of	58.10	Amperes
D	4	lights each of	100	candle power requiring a total current of	6.00	Amperes
E	2	lights each of	1,500	candle power requiring a total current of	10.00	Amperes
2	Mast head light with	2 lamps each of	32	candle power requiring a total current of	2.24	Amperes
2	Side light with	2 lamps each of	32	candle power requiring a total current of	2.24	Amperes
14	Cargo lights of	128 and 1,500	candle power, whether incandescent or arc lights	incandescent		

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 170.00 Amperes, comprised of 2500 wires, each no. 30 S.W.G. diameter, 0.3000 square inches total sectional area

Branch cables carrying 17.30 " " no. 20 0.030 " " " " "

Branch cables carrying 38.20 Amperes, comprised of 30 wires, each no. 20 S.W.G. diameter, 0.030 square inches total sectional area

" " " 33.68 " " no. 20 0.019 " " " " "

Branch cables carrying 33.68 Amperes, comprised of 19 wires, each no. 20 S.W.G. diameter, 0.019 square inches total sectional area

Leads to lamps carrying 0.5 Amperes, comprised of 1 wires, each no. 18 S.W.G. diameter, 0.0018 square inches total sectional area

Cargo light cables carrying 5.0 Amperes, comprised of 234 wires, each no. 38 S.W.G. diameter, 0.0066 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Conductors are doubly insulated with india rubber and vulcanized rubber and tape, cables are protected against mechanical injury and chemical action by steel armouring or lead covering according to the requirements.

Joints in cables, how made, insulated, and protected Mechanical joint are made throughout and protected with water tight cast iron boxes.

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 none

How are the cables led through the ship, and how protected Cables are led unconcealed and without any additional protections beside those on the cables themselves.

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