

YACHT.

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WED. 14 JUN 1911

Rpt. 13.

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REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 30242.

Port of Glasgow Date of First Survey 3/4/11 Date of Last Survey 1/6/11 No. of Visits 15
 No. in Reg. Book on the Iron or Steel T s/s Yacht Jeannette Port belonging to Glasgow
 Built at Clydebank By whom J. Brown & Co. Ltd. When built 1911
 Owners H. Divesey Owners' Address 14 South Place London E.C.
 Yard No. 408 Electric Light Installation fitted by J. Brown & Co. Ltd. When fitted 1911

DESCRIPTION OF DYNAMO, ENGINE, ETC.

2 generators each comprising enclosed type forced lubrication engine with single cylinder 4" dia 4 3/4" stroke coupled to compound wound dynamo giving 46-70 amps, 50-75 volts at 600 revs ✓
 Capacity of Dynamo 46-70 Amperes at 50-75 Volts, whether continuous or alternating current continuous ✓
 Where are dynamo fixed In engine room thrust recess ✓ Whether single or double wire system is used Double wired ✓
 Position of Main Switch Board aft BK' Head of engine room ✓ having switches to groups A. B. C. D. E. F. ✓ of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each _____

If cut outs 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 _____ and at each position where a cable is branched or reduced in size Yes ✓ and to each lamp circuit Yes ✓
 If cessel is wired on the double wire system are cut outs fitted to both flow and return wires or cables of all circuits including lamp circuits Yes ✓
 Are the cut outs of non-oxidizable metal tinne copper ✓ and constructed to fuse at an excess of 50-100 per cent over the normal current
 Are all cut outs fitted in easily accessible positions Yes ✓ Are the fuses of standard dimensions no 33 S.W.B. 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 cut-outs constructed of incombustible materials and fitted on incombustible bases Yes porcelain ✓

Total number of lights provided for 240 + 21 lamps arranged in the following groups :-

A	<u>2. 9 1/2" + 1. 12" fans + 35 lights each of</u>	<u>16</u>	candle power requiring a total current of	<u>13.75</u>	Amperes
B	<u>8. 9 1/2" fans + 45 lights each of</u>	<u>16</u>	candle power requiring a total current of	<u>21.6</u>	Amperes
C	<u>4. 9 1/2" fans + 52 lights each of</u>	<u>16</u>	candle power requiring a total current of	<u>20.0</u>	Amperes
D	<u>3. 9 1/2" fans + 43 lights each of</u>	<u>16</u>	candle power requiring a total current of	<u>16.4</u>	Amperes
E	<u>8. 9 1/2" + 12 fans + 14 lights each of</u>	<u>16</u>	candle power requiring a total current of	<u>11.9</u>	Amperes
F	<u>2 Mast head light with one lamp each of</u>	<u>32</u>	candle power requiring a total current of	<u>1.36</u>	Amperes
	<u>2 Side light with one lamp each of</u>	<u>32</u>	candle power requiring a total current of	<u>1.36</u>	Amperes
	<u>2 Cargo lights of 3. 16</u>		candle power, whether incandescent or arc 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 Underneath Bridge Port, main mast in h.R. doorway

DESCRIPTION OF CABLES.

Main cable carrying 70 Amperes, comprised of 19/14 wires, each 14 L.S.G. diameter, .024472 square inches total sectional area
 Branch cables carrying 21.3 Amperes, comprised of 7/16 wires, each 16 L.S.G. diameter, .03399 square inches total sectional area
 Branch cables carrying 21.6 Amperes, comprised of 19/16 wires, each 18 L.S.G. diameter, .03399 square inches total sectional area
 Leads to lamps carrying 1.6 Amperes, comprised of 3/22 wires, each 22 L.S.G. diameter, .001825 square inches total sectional area
 Cargo light cables carrying 1.2 Amperes, comprised of 100 wires, each 38 L.S.G. diameter, .00283 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

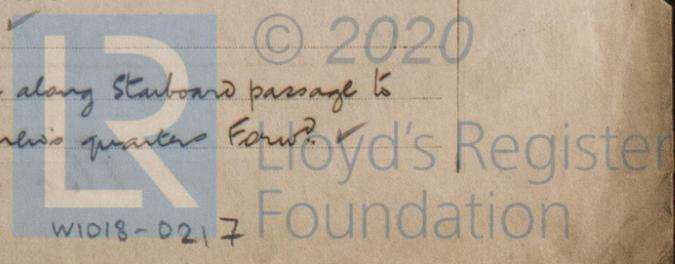
The conductors are insulated with pure and vulcanising india rubber, taped with specially prepared taped, the whole vulcanised together and braided compounded overall. ✓

Joints in cables, how made, insulated, and protected joints well soldered, re. insulated with pure rubber tape and finished off with rubber coated tape making a thoroughly watertight joint ✓

Are all the joints of cables thoroughly soldered, resin only having been used as a flux 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 none

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 From switchboards in engine room along Starboard passage to pantry, along watertight passage + through store rooms to Offices main quarters Forward ✓



DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible Yes ✓

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture Lead sheathing ✓

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat Wood casing ✓

What special protection has been provided for the cables near boiler casings Armoured cables braided overall ✓

What special protection has been provided for the cables in engine room Do ✓

How are cables carried through beams Holes bushes with lead ✓ through bulkheads, &c. Watertight glands. ✓

How are cables carried through decks Watertight deck tube ✓

Are any cables run through coal bunkers no or cargo spaces no or spaces which may be used for carrying cargo, stores, or baggage no ✓

If so, how are they protected _____

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage _____

If so, how are the lamp fittings and cable terminals specially protected _____

Where are the main switches and cut outs for these lights fitted _____

If in the spaces, how are they specially protected _____

Are any switches or cut outs fitted in bunkers none fitted in Bunkers ✓

~~Cargo~~ light cables, whether portable or permanently fixed Portable ✓ How fixed _____

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel Double wired ✓

How are the returns from the lamps connected to the hull _____

Are all the joints with the hull in accessible positions _____

The installation is _____ supplied with a voltmeter and _____ an amperemeter, fixed on switch ✓

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and cut-outs fitted in positions not liable to the accumulation of petroleum vapour or gas _____

Are any switches, cut outs, or joints of cables fitted in the pump room or companion _____

How are the lamps specially protected in places liable to the accumulation of vapour or gas _____

The copper used is guaranteed to have a conductivity of 100 ✓ per cent. that of pure copper.

Insulation of cables is guaranteed to have a resistance of not less than 600 ✓ megohms per statute mile after 24 hours' immersion in seawater.

The foregoing statements are a correct description of the Electric Light installation fitted by us on this vessel and that it is at this date in good order and safe working condition.

FOR JOHN BROWN & CO. LIMITED

Electrical Engineers

Date _____

COMPASSES.

Distance between dynamo or electric motors and standard compass 90 ft

Distance between dynamo or electric motors and steering compass 100 ft

The nearest cables to the compasses are as follows:—

A cable carrying	17.6 Amperes	20 feet from standard compass	30 feet from steering compass
A cable carrying	21.6 Amperes	20 feet from standard compass	30 feet from steering compass
A cable carrying	15.4 Amperes	20 feet from standard compass	30 feet from steering compass

Have the compasses been adjusted with and without the electric installation at work at full power Yes ✓

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

FOR JOHN BROWN & CO. LIMITED

Builder's Signature.

Date _____

GENERAL REMARKS.

This installation has been fitted in accordance with the rules has been seen under working conditions with satisfactory results

It is submitted that this vessel is eligible for

THE RECORD Elec. light JWD 15/6/11

Harry Clarke

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Glasgow 13 JUN 1911

Elec. light



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