

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 29867

Port of Hull Date of First Survey Feb 22/17 Date of Last Survey Mar 14/17 No. of Visits 4
 No. in Reg. Book 51 Supp on the Iron or Steel Steam Trawler Simpson Port belonging to Grimsby
 Built at Beverley By whom Cook, Wilton & Gemmell When built 1917
 Owners Standard Steam Trawling Co Owners' Address Grimsby
 Yard No. 352 Electric Light Installation fitted by Humber Electric Eng. Co When fitted 1917

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Robey open type engine direct coupled to late compounded wound dynamo running at 450 R.P.M.
 Capacity of Dynamo 50 Amperes at 65 Volts, whether continuous or alternating current Direct
 Where is Dynamo fixed Engine room Whether single or double wire system is used Double
 Position of Main Switch Board near Dynamo having switches to groups Three of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each one 5 way distribution box in fore-castle, one 3 way in engine room, one 10 way in wheel house, and one 5 way in cabin aft
 If fuses are fitted on main switch board to the cables of main circuit No 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 25% 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 60 arranged in the following groups:—

A	<u>9</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>8.1</u>	Amperes
B	<u>26</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>23.4</u>	Amperes
C	<u>12</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>10.5</u>	Amperes
D	<u>13</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>11.9</u>	Amperes
E		lights each of		candle power requiring a total current of		Amperes
	<u>3</u>	Mast head-light with <u>1</u> lamps each of	<u>32</u>	candle power requiring a total current of		Amperes
	<u>2</u>	Side light with <u>1</u> lamps each of	<u>32</u>	candle power requiring a total current of		Amperes
	<u>2</u>	Cargo lights of <u>1 of 6 & 1 of 2</u> -	<u>16</u>	candle power, whether incandescent or arc lights	<u>incandescent</u>	

 If arc lights, what protection is provided against fire, sparks, &c. No arcs
 Where are the switches controlling the masthead and side lights placed Wheel house

DESCRIPTION OF CABLES.

Main cable carrying 50 Amperes, comprised of 19 wires, each 18 S.W.G. diameter, .034 square inches total sectional area
 Branch cables carrying 23 Amperes, comprised of 7 wires, each 20 S.W.G. diameter, .007 square inches total sectional area
 Branch cables carrying 12 Amperes, comprised of 3 wires, each 20 S.W.G. diameter, .003 square inches total sectional area
 Leads to lamps carrying 1 Amperes, comprised of 1 wires, each 18 S.W.G. diameter, .0018 square inches total sectional area
 Cargo light cables carrying 5.4 Amperes, comprised of 130 wires, each 40 S.W.G. diameter, .0024 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

V. I. P. cables lead covered and lead covered and armoured of Henleys manufacture
 Joints in cables, how made, insulated, and protected No joints
 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 Through beams clipped to under side of deck and to bulk heads with strong wrought iron galvanised clips

DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible no ✓
 What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture Lead covered and armoured. ✓
 What special protection has been provided for the cables near galleys or oil lamps or other sources of heat Lead and armoured
 What special protection has been provided for the cables near boiler casings Lead and armoured
 What special protection has been provided for the cables in engine room Lead and armoured
 How are cables carried through beams Lead lashed where not armoured through bulkheads, &c. Brass under light glands ✓
 How are cables carried through decks Galvanised wrought iron deck pipes. ✓
 Are any cables run through coal bunkers Yes or cargo spaces Yes or spaces which may be used for carrying cargo, stores, or baggage Yes ✓
 If so, how are they protected Lead covered and armoured.
 Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage Yes
 If so, how are the lamp fittings and cable terminals specially protected b. s. fittings with heavy brass glands.
 Where are the main switches and fuses for these lights fitted Forecastle
 If in the spaces, how are they specially protected ✓
 Are any switches or fuses fitted in bunkers no
 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 ✓
 How are the returns from the lamps connected to the hull ✓
 Are all the joints with the hull in accessible positions ✓
 Is the installation supplied with a voltmeter Yes, and with an amperemeter Yes, fixed main switch board

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and fuses fitted in positions not liable to the accumulation of petroleum vapour or gas ✓
 Are any switches, fuses, 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 not less than that of the Engineering Standards Committee's standard, and the wires are protected by tinning from the sulphur compounds present in the insulating material.

Insulation of cables is guaranteed to have a resistance of not less than 600 megohms per statute mile at 60° Fahrenheit after 24 hours' immersion in water, the test being made after one minute's electrification at not less than 500 volts and while the cable is still immersed.

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

THE HUNBER ELECTRICAL ENGINEERING CO

W. P. Shattworth

Electrical Engineers

Date

COMPASSES.

Distance between dynamo or electric motors and standard compass about 40 feet.

Distance between dynamo or electric motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 2 Amperes lead to — feet from standard compass 4 to — feet from steering compass

A cable carrying — Amperes — feet from standard compass — feet from steering compass

A cable carrying — Amperes — 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

The maximum deviation due to electric currents, etc., was found to be nil degrees on any course in the case of the

standard compass and nil degrees on any course in the case of the steering compass.

COOK, WELTON & GEMMELL, LTD.

W. Patterson

DIRECTOR

Builder's Signature.

Date

March 25th /17

GENERAL REMARKS.

This vessel has been fitted with electric light installation as above and the workmanship is good, on completion it was tested under full working conditions and found satisfactory.

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

J. W. D. 4/4/17.

Geo. Allen

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

150,110—Transfer.



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