

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 29027

Port of Hull Date of First Survey 30/11/15 Date of Last Survey Dec 11/15 No. of Visits 6
 No. in on the ~~Iron or Steel~~ ScK. "Sea Sweeper" Port belonging to Hull
 Reg. Book 825 Built at Beverley By whom Cook, Wilton & Gemmell When built 1915
 Owners Humber Stevedoring Co. Ltd Owners' Address _____
 Yard No. 321 Electric Light Installation fitted by The Humber Electrical Eng. Co. When fitted 1915

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Sisson Engine enclosed direct coupled to Tark Dynamo all mounted on one bed plate engine w.p. 110 H.P.
 Capacity of Dynamo 53 Amperes at 65 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed Engine Room (Starboard) Whether single or double wire system is used Double
 Position of Main Switch Board Starboard Engine Room having switches to groups 3 of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each One - 5 way aft One 3 way Engine Room
1 - 12 way Wheelhouse 1 - 3 way Forecastle
 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 57-16 CP arranged in the following groups:—
 A 9 lights each of 16 candle power requiring a total current of 8.2 Amperes
 B 21 lights each of 16 candle power requiring a total current of 19. Amperes
 C 9 lights each of 16 candle power requiring a total current of 8.2 Amperes
 D 12 lights each of 16 candle power requiring a total current of 11. Amperes
 E _____ lights each of _____ candle power requiring a total current of _____ Amperes
3 Mast head light with 1 lamps each of 32 candle power requiring a total current of 5.3 Amperes
2 Side light with 1 lamps each of 32 candle power requiring a total current of 3.8 Amperes
Two Cargo lights of 5.16 CP 2.16 CP candle power, whether incandescent or arc lights
 If arc lights, what protection is provided against fire, sparks, &c. no Arcs

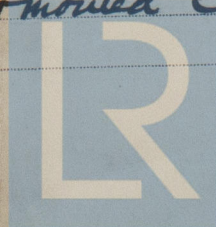
Where are the switches controlling the masthead and side lights placed Wheelhouse

DESCRIPTION OF CABLES.

Main cable carrying 53 Amperes, comprised of 19 wires, each 18 S.W.G. diameter, .034 square inches total sectional area
 Branch cables carrying 20 Amperes, comprised of 3 wires, each 18 S.W.G. diameter, .053 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 Amperes, comprised of 130 wires, each 40 S.W.G. diameter, .0024 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Lead Covered Cables - Lead Armoured elsewhere
Steel Cables
 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 _____ 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
 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 Lead covered Armoured Cables
clipped up direct to Decks & Steel work



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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 Armoured

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

Lead Armoured

What special protection has been provided for the cables near boiler casings

Lead Armoured

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

Lead Armoured

How are cables carried through beams

Lead Armoured

through bulkheads, &c.

Brun WT Glands

How are cables carried through decks

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 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

Heavy Iron Cans to fittings
Storehold

Where are the main switches and fuses for these lights fitted

If in the spaces, how are they specially protected

No

Are any switches or fuses fitted in bunkers

Portable

How fixed

Cargo light cables, whether portable or permanently 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 Switchboard

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 NUMBER ELECTRICAL ENGINEERING CO.

W & C Shuttleworth

Electrical Engineers

Date

COMPASSES.

PROPRIETOR

Distance between dynamo or electric motors and standard compass

Distance between dynamo or electric motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 2 Amperes 10 feet from standard compass feet from steering compass

A cable carrying 2 Amperes 10 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 all course in the case of the

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

COOK, WELTON & GEMMELL, LTD.

W H Patterson

Builder's Signature.

Date

March 14 1916

GENERAL REMARKS.

DIRECTOR.

This installation of electric light has been well fitted. The materials & workmanship are good. It has been tried under full working conditions & found satisfactory.

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

P. Fitzgerald

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

Committee's Minute



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