

are permanent instructions fitted on or near each switch board giving particulars of proper size of fuse for each circuit

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

Total number of lights provided for 238 arranged in the following groups:—

F. Cargo.	32	lights each of 16 C.P. & 2 lts. of 1000 C.P. requiring total current of 29.2 amps.
G. Machy. Port.	12 } 7 }	" " " 27 " & 1 lt. " 600 " " " " 10.8 amps.
H " Star.	27 } 5 }	" " " 27 " & 1 lt. " 600 " " " " 13.5 amps.
I Lathe.		12.0 amps
J Drilling Machine.		20.0 amps.
K		

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

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







**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 Cables throughout protected by lead covering, steel armoured and braided overall. Those on top of expansion trunk further protected by iron boughing.

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat lead served armoured & braided

What special protection has been provided for the cables near boiler casings lead served armoured & braided

What special protection has been provided for the cables in engine room lead served armoured & braided.

How are cables carried through beams Beams bushed with lead or fibre through bulkheads, &c. otherwise lead or fibre bushed.

How are cables carried through decks in deck pipes, bushed, or with glands.

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 No.

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

Where are the main switches and fuses for these lights fitted —

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 Permanently. How fixed lead served armoured & braided clipped direct to Bulkhead or Steel plating

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 on 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 2500 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.

Electrical Engineers

Date 14.11.22

**COMPASSES.**

Distance between dynamo or electric motors and standard compass 118 ft. from dynamos & 18 ft. from Wireless Rotary.

Distance between dynamo or electric motors and steering compass 118 ft. " " 14 ft. " "

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
16	6	5	feet from steering compass
15	20	14	feet from steering compass
26	42	45	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.

FOR HARLAND & WOLFF, LTD.

Builder's Signature.

Date

28/11/22

**GENERAL REMARKS.**

This installation is of good description, and has been fitted in accordance with the Rules.

**It is submitted that this vessel is eligible for THE RECORD.**

See: £20:0:0.

A. P. Southwell.  
6/12/22

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 8 DEC. 1922



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