

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 *Steel conduit.*

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

What special protection has been provided for the cables near boiler casings *Steel conduit.*

What special protection has been provided for the cables in engine room *Steel conduit.*

How are cables carried through beams *through bushes of fibre.* ✓ through bulkheads, &c. glands if W.T. otherwise bushes

How are cables carried through decks *Iron Deck Tubes, fibre bushed.* ✓

Are any cables run through coal bunkers *No* or cargo spaces *Yes* or spaces which may be used for carrying cargo, stores, or baggage *Yes*

If so, how are they protected *Cables to Lighting Boxes (controlled from Switchboard), in strong wood casing; other cables L.S.A.B. further protected in places by Steel plating.*

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 *permanent.* How fixed *in strong wood casing.*

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel *through special earth plates.*

How are the returns from the lamps connected to the hull *sweated to 3/8" tinned brass screws tapped into beams etc.*

Are all the joints with the hull in accessible positions *Yes*

Is the installation supplied with a voltmeter *Yes*, and with an amperemeter *Yes*, fixed on *Main & Emergency Switchboards.*

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.

For HARLAND & WOLFF, LTD.

S. Johnston

Electrical Engineers

Date *20/4/22*

COMPASSES.

Distance between dynamo or electric motors and standard compass *160 ft to Dynamo & 36 ft to nearest motor.*

Distance between dynamo or electric motors and steering compass *160 ft " " & 36 ft " "*

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
10	6'—6"	8	
30	40	40	
32	32	32	

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* standard compass and *Nil* degrees on *all* course in the case of the steering compass

For HARLAND & WOLFF, LTD.

Builder's Signature.

Date



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

Fee £ 37-2-6

Advised 21-4-22

THE RECORD.

Elec. Sign.

L. G. 26/4/22

R. F. Bennett

Surveyor to Lloyd's Register of Shipping.

Committee's Minute