

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 covered + armoured.*

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *lead covered + armoured.*

What special protection has been provided for the cables near boiler casings *none near boiler casings*

What special protection has been provided for the cables in engine room *run in galvanized iron tubes*

How are cables carried through beams *galvanized fibre ferrules* through bulkheads, &c. *W.T. packing glands*

How are cables carried through decks *In deck tubes filled in with pitch.*

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 + armoured.*

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

If so, how are the lamp fittings and cable terminals specially protected *Watertight oyster fittings + terminal boxes*

Where are the main switches and fuses for these lights fitted *In wheelhouse.*

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 on main switchboard *yes.*

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.

CLYNE MITCHELL & CO. Ltd. *W. Malcolm* Electrical Engineers Date *7th December 1922*

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	<i>. 8</i>	Amperes	_____	feet from standard compass	<i>1 1/2</i>	feet from steering compass
A cable carrying	<i>. 4</i>	Amperes	_____	feet from standard compass	<i>1 1/2</i>	feet from steering compass
A cable carrying	<i>. 4</i>	Amperes	_____	feet from standard compass	<i>1 1/2</i>	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.

Stevenson & Harris Compass Adjusters Builders' Signature. Date *Dec 8th 1922*

GENERAL REMARKS.

The various parts of the Installation were examined during the fitting on board; the materials and workmanship are good, and on completion the light was tried under full power and found satisfactory.

Fee: *£5 paid*
7.12.22
Committee's Minute

THE RECORD. *Electric Light*
8/12/22

Ridley Yowell
Surveyor to Lloyd's Register of Shipping.

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

