

No. 74783

When fitted 1921

2 in 40 multipolar Shunt generator coupled to internal combustion engines, 1 in 40 multipolar shunt generator coupled to internal combustion engine & 1 in 40 110 volt 12 KW Generator coupled to 220V motor
Capacity of Dynamo 318, 318, 12.6, 109 Amperes at 220, 220/110, 110 Volts, whether continuous or alternating current Continuous
Where ^{are} Dynamos fixed dynamo flat aft end of engine room Whether single or double wire system is used Double
Position of Main Switch Board dynamo flat having switches to groups (Power) 9 & 7 (lighting) of lights, &c., as below
Positions of auxiliary switch boards and numbers of switches on each See separate sheets attached herewith

[REDACTED]

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 + taped cable run in conduit up masts and round pump room entrance*

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

What special protection has been provided for the cables near boiler casings *lead covered + armoured*

What special protection has been provided for the cables in engine room *lead covered + armoured*

How are cables carried through beams *lead bushed holes* through bulkheads, &c. *waterlight glands.*

How are cables carried through decks *waterlight deck-tubes*

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

If so, how are they protected *lead covered + taped; sheet steel guards fitted where liable to damage.*

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 *portable* How fixed *waterlight connection box.*

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 voltmeters *yes* and with *no* amperemeters *yes*, fixed *2 of each on 220V Board 2 " " 110V S. 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 *yes*

Are any switches, fuses, or joints of cables fitted in the pump room or companion *no*

How are the lamps specially protected in places liable to the accumulation of vapour or gas *gas tight fittings*

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. *(6 m. a. grade of cable used)*

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

COMPASSES.

Distance between dynamo or electric motors and standard compass *huesh motor 180 feet + wireless gas 20 feet*

Distance between dynamo or electric motors and steering compass *" " 144 " " " 15 "*

The nearest cables to the compasses are as follows:—

Cable	Amperes	Feet from standard compass	Feet from steering compass
A cable carrying .5	4	1	1
A cable carrying .5	1	4	4
A cable carrying .2	4.5	5	5

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

Builder's Signature.

Date

For *SIR W. G. ARMSTRONG, WHITWORTH & CO. LTD.*

H. G. Williams
Aug. 26/1921

GENERAL REMARKS.

The above installation is in accordance with the Society's Rules. The vessel is eligible to have (in my opinion) notation Elec light, wireless

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

W. T. Badger.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI OCT. 7 1921