

No. 2218

No. in Reg. Book	on the Iron or Steel	S. S. Bagnoli I.	Port belonging to	Naples.
54001	Built at	Bagnoli	By whom	Uva-Cantiere Navale di Bagnoli
Owners	Messrs Uva Atti Torri & Accasciari. d. Italia	Owners' Address	Rome	When built 1921
Yard No.	1	Electric Light Installation fitted by	Builders with outside help	When fitted 1922

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

One Multipolar Compound wound dynamo direct coupled to open type inverted engine with cylinder  $200 \times 140$  at 400 Revs. Press 7 Kien.

Capacity of Dynamo 90 Amperes at 110 Volts, whether continuous or alternating current Continuous

Where is Dynamo fixed Bottom of E.R. port side Whether single or double wire system is used double

Position of Main Switch Board Close to dynamo having switches to groups 5 of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each	none
1	1
2	2
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100	100

If fuses are fitted on main switch board to the cables of main circuit yes ✓ and on each auxiliary switch board to the cables of auxiliary circuits ✓ 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 100 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 218 arranged in the following groups :—

A SALOON — 66 lights each of 20 WATTS — 16 candle power requiring a total current of 12 Amperes

B **MARCONI** ~~lights~~ lights each of ~~\_\_\_\_\_~~ candle power requiring a total current of **10** Amperes

C DECK GEAR - 32 lights each of 16 candle power requiring a total current of 5.8 Amperes

☐ **SIGNALS** 7 lights each of 16 candle power requiring a total current of 1.3 Amperes

E & B. SPACES	44	lights each of	16	candle power requiring a total current of	8	Amperes
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F. CRENS QUARTERS, 69  
2 Mast head lights with One lamp each of 16 candle power requiring a total current of 12.5 Amperes

2 Side lights with one lamp each of 16 candle power requiring a total current of 16 Amperes } included in above

3 Cargo lights of 6 lamps each candle power, whether incandescent or ~~FLUO~~ included in above

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

Where are the switches controlling the masthead and side lights placed in the Chart room.

## DESCRIPTION OF CABLES.

Main cable carrying 50 Amperes, comprised of 14 wires, each 18 S.W.G. diameter, .0252 square inches total sectional area

3 Branch cables carrying <sup>TOTAL</sup> 30.5 Amperes comprised of 6 wires, each 19 S.W.G. diameter, .0234 square inches total sectional area

2 Branch cables carrying 18 Amperes <sup>TOTAL</sup> comprised of 7 wires, each 18 S.W.G. diameter, .0252 square inches total sectional area

Leads to lamps carrying 10.5 Amperes, comprised of 1 wires, each 18 S.W.G. diameter, .0018 square inches total sectional area

Cargo light cables carrying 12 Amperes, comprised of 1 wires, each 14 S.W.G. diameter, .0050 square inches total sectional area

### DESCRIPTION OF INSULATION, PROTECTION, ETC.

In accommodation pure rubber. vulcanised rubber. taped and lead covered, Main cables. E & B rooms and all cables on decks and tween decks & exposed places. lead covered Armoured.

Joints in cables, how made, insulated, and protected by properly constructed joint boxes.

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances none Are all joints in accessible positions YES none being made in bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage NO

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 *clipped to underside of deck and E & B. casings*  
*& under deck guides in tween decks.* ✓



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 *Armoured cables* ✓  
 What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *armoured* ✓  
 What special protection has been provided for the cables near boiler casings *armoured* ✓  
 What special protection has been provided for the cables in engine room *armoured* ✓  
 How are cables carried through beams *below deck girders* ✓ through bulkheads, &c. *W.T. Glands*  
 How are cables carried through decks *deck tubes* ✓  
 Are any cables run through coal bunkers *yes* or cargo spaces ✓ or spaces which may be used for carrying cargo, stores, or baggage ✓  
 If so, how are they protected *armoured.* ✓  
 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 ✓  
 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 ✓ 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. *Cables used Standard Italian Naval practice information required not available*

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.

*Enghuigi Hough*

Electrical Engineers

Date *2/1/23*

COMPASSES.

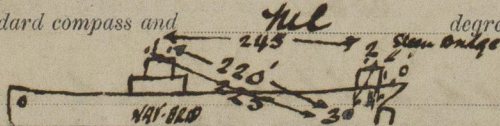
Distance between dynamo or electric motor and standard compass *220 feet on Nav Bridge*  
 Distance between dynamo or electric motor and steering compass *{ 42 " " Steering Bridge on foot }*

The nearest cables to the compasses are as follows:—

<i>Nav. Bridge</i>	<i>.2</i>	Ampere	<i>6</i>	feet from standard compass	<i>8</i>	<i>{ on bridge</i>
<i>Steering Bridge</i>	<i>1.0</i>	Ampere	<i>24.5</i>	feet from standard compass	<i>6</i>	<i>{ feet from steering compass</i>
A cable carrying	✓	Ampere	✓	feet from standard compass	✓	<i>on top of bridge.</i>
						<i>feet from steering compass</i>

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.  
*1. compasses - Nav. Bridge*  
*2. compass - Bridge aft*  
*3. dynamo.*



Builder's Signature. Date

GENERAL REMARKS.

*This vessel has been fitted with an electric light installation as above. the workmanship is good, on completion it was tested under full working conditions and found satisfactory*

*This vessel is eligible for THE RECORD.*

*Elec. Light* *W.D. Roberts* *Surveyor to Lloyd's Register of Shipping.*

Committee's Minute

FRI. 23 FEB. 1923



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