

# REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 4180.

Port of Newcastle on Tyne Date of First Survey 25/1/21 Date of Last Survey 26/2/21 No. of Visits 5  
 No. in 500 on the Iron or Steel Tusithney ex Lippe Port belonging to St Ives  
 Reg. Book Suff. 81998 Built at Flensburg By whom Schiffst Geo Flensburg When built 1914  
 Owners Hain S. S. Co Ltd Owners' Address St Ives  
 Yard No. — Electric Light Installation fitted by — When fitted 1914

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

Dynamo makes Hamag. Bremen multipolar compound machine coupled direct to a compound steam engine.

Capacity of Dynamo 146 Amperes at 110 Volts, whether continuous or alternating current continuous

Where is Dynamo fixed engine room, starboard side Whether single or double wire system is used single

Position of Main Switch Board engine room, starboard side having switches to groups seven (7) of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each engine room 1-6 way DB + 1-10 way dis box  
1-4 way dis box forward in alleyway, 1-8 way dis box in saloon passage, 1-6 way dis box in wheelhouse.

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 yes 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 arranged in the following groups:—

A Navigation	11	lights each of 6-32 CP, 5-8 CP, 1-16 CP	candle power requiring a total current of	6.872	Amperes
B Engine room	48	lights each of 20 watt	candle power requiring a total current of	8.736	Amperes
C Forward	47	lights each of 20-20 watt, 25-16 CP, 2-300 CP	candle power requiring a total current of	19.09	Amperes
F Projector	—	cables run but no projector on board.			
D Wireless	—	lights each of	candle power requiring a total current of	15.0	Amperes
E Saloon	43	lights each of 20 watt + 5 table lamps	candle power requiring a total current of	11.568	Amperes
G Engineers' room	25	48-20 watt, 25-16 CP, 5 table lamps, 2-300 CP H.W. set	" "	27.939	"
2 Mast head light with	1	lamps each of 32	candle power requiring a total current of	1.85	Amperes
2 Side light with	1	lamps each of 32	candle power requiring a total current of	1.85	Amperes

54 lights (144) Cargo lights of 4-300 HW lamps, 10-5 CP light cluster of 16 CP. candle power, whether incandescent or arc lights incandescent

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

Where are the switches controlling the masthead and side lights placed in wheelhouse. Navigation light indicator fitted

## DESCRIPTION OF CABLES.

Main cable carrying	146	Amperes, comprised of	wires, each	S.W.G. diameter,	square inches total sectional area
Branch cables carrying	27.939	Amperes, comprised of	wires, each	S.W.G. diameter,	square inches total sectional area
Branch cables carrying	19.09	Amperes, comprised of	wires, each	S.W.G. diameter,	square inches total sectional area
Leads to lamps carrying	18	Amperes, comprised of	wires, each	S.W.G. diameter,	square inches total sectional area
Cargo light cables carrying	254	Amperes, comprised of	wires, each	S.W.G. diameter,	square inches total sectional area

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

The whole of the cables are lead covered armoured & braided.

Joints in cables, how made, insulated, and protected none made

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances — Are all joints in accessible positions, none being made in bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage —

Are there any joints in or branches from the cable leading from dynamo to main switch board no. a fuse is fitted with switch S. Pom switchboard

How are the cables led through the ship, and how protected clipped to bulkheads + run fore + aft on deck protected by steel channel bars.

