

No.

When built 1905

2 dynamos direct coupled to single cylinder steam engines, makers: W. H. Allen Son & Co. Ltd., Bedford
1 " { 2 of 60 Amps. each at 100 Volts " , " " maker of dynamo: Thomas B. Thøgers, Odense, Denmark
Capacity of Dynamos } " 164 " Approximate at 110 " " " steam eng.: Thines mek. Verksted, Christiansia, Norway

Where is Dynamos fixed in engine room

Positions of auxiliary switch boards and numbers of switches on each

1) one in fore-castle having 6 pairs of fuses	2) one " stores-room aft having one switch and one pair of fuses
3) one " poop	4) " tween deck N-2 " two
5) one " tween deck N-3 having one switch and one pair of fuses	6) one in tween deck N-4 having two switches and two pairs of fuses
7) one " " 5 " two	8) one " chart room (signal-relais for lanterns) branched from N-2
9) one " wireless room having two switches and two pairs of fuses	10) one " "

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

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 corresponding to the UL and constructed to fuse at an excess of 10 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	Bridge Stearboard 32 lights — " Port 37 "	7 days.	
	Forecastle 100 "	2 3/4 "	candle power requiring a total current of
	Gunroom aft 20 "	4 1/2 "	Amperes
B	Forward deck No. 2 30 "	11 1/2 "	
	" " 3 16 "	4 1/2 "	candle power requiring a total current of
	" " 4 15 "	3 1/2 "	Amperes
	Engine Room Stearboard 35 "	3 1/2 "	
C	" Port 16 "	3 1/2 "	candle power requiring a total current of
	Sheet Truss 8 "	1 1/2 "	Amperes
	Foreplace Starb. 8 "	1 1/2 "	
D	" Port 8 "	1 1/2 "	
	Smithy 6 "	1 1/2 "	candle power requiring a total current of
	Engine Workshop 12 "	3 0 "	Amperes
E	Wireless 10 "	5 KW.	
	Galley 10 "	2 1/2 days. + Motor 1/4 HP.	candle power requiring a total current of
			Amperes

2 Mast head lights with 1 lamp each of 25 candle power requiring a total current of 0.23 Amperes

2 Side lights with 1 lamp each of 25 candle power requiring a total current of 0.23 Amperes

1	apt	light	1	"	"	"	"	25		023	"
20		Cargo lights of						100	candle power whether incandescent or arc lights	100	"

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

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

DESCRIPTION OF CABLES. Main cables from each of 60 Amps. Dynamos - $2 \times 25 \text{ mm}^2$ sectional

Main cable to auxiliary switchboards N=1 wires each $2 \times 6 \text{ mm}^2$ S.W. & 2 groups from main switchboard to square inches total sectional area

Branch cable to auxiliary switch board No 2	No 2	2 x 6 mm ²	} 2 " " " " " " " " " "	square inches total sectional area
Branch cables "auxiliary" - "Amperes connected"	No 3 each	2 x 6 mm ² W G diameter		

Branch cables carrying ——— Amperes, comprised of ———
 " Given each 2 x 6 mm² W. (3) diameter ——— square inches total sectional area

Leads to lamp carrying	Amperes comprised of	" 7	2 x 6 mm	2	W G diameter	square inches total sectional area
" "	" "	" 8	2 x 6 mm	2	" "	" "
" "	" "	" 9	2 x 6 mm	2	" "	" "
" "	" "	" 10	2 x 6 mm	2	" "	" "
" "	" "	" 11	2 x 6 mm	2	" "	" "
" "	" "	" 12	2 x 6 mm	2	" "	" "
" "	" "	" 13	2 x 6 mm	2	" "	" "
" "	" "	" 14	2 x 6 mm	2	" "	" "
" "	" "	" 15	2 x 6 mm	2	" "	" "
" "	" "	" 16	2 x 6 mm	2	" "	" "
" "	" "	" 17	2 x 6 mm	2	" "	" "
" "	" "	" 18	2 x 6 mm	2	" "	" "
" "	" "	" 19	2 x 6 mm	2	" "	" "
" "	" "	" 20	2 x 6 mm	2	" "	" "
" "	" "	" 21	2 x 6 mm	2	" "	" "
" "	" "	" 22	2 x 6 mm	2	" "	" "
" "	" "	" 23	2 x 6 mm	2	" "	" "
" "	" "	" 24	2 x 6 mm	2	" "	" "
" "	" "	" 25	2 x 6 mm	2	" "	" "
" "	" "	" 26	2 x 6 mm	2	" "	" "
" "	" "	" 27	2 x 6 mm	2	" "	" "
" "	" "	" 28	2 x 6 mm	2	" "	" "
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" "	" "	" 41	2 x 6 mm	2	" "	" "
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" "	" "	" 44	2 x 6 mm	2	" "	" "
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" "	" "	" 71	2 x 6 mm	2	" "	" "
" "	" "	" 72	2 x 6 mm	2	" "	" "
" "	" "	" 73	2 x 6 mm	2	" "	" "
" "	" "	" 74	2 x 6 mm	2	" "	" "
" "	" "	" 75	2 x 6 mm	2	" "	" "
" "	" "	" 76	2 x 6 mm	2	" "	" "
" "	" "					

[illegible]

DESCRIPTION OF INSULATION, PROTECTION, ETC.

All cables outside cabins wire-protected lead- and rubber-insulated

Joints in cables, how made, insulated, and protected soldered and protected by special boxes filled with

insulating compounds.

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances yes 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 *yes.*

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 *led under decks and on bulkheads. Nitepro*

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 cables being wire-protected and lead- and rubber-insulated no special protection necessary.

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat see above.

What special protection has been provided for the cables near boiler casings see above.

What special protection has been provided for the cables in engine room see above.

How are cables carried through beams through drilled holes lead bushes through bulkheads, &c. watertight boxes.

How are cables carried through decks watertight boxes (only in tween decks, where no cargo)

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

If so, how are they protected as above specified.

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 _____

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 switch-board also one ohm-meter

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.

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.

7/8 PRAMNÆS MEK. VÆRSTED

Electrical Engineers

Date 17th Sept. 1923

COMPASSES

Distance between dynamo or electric motors and standard compass 80'-0

Distance between dynamo or electric motors and steering compass 90'-0

The nearest cables to the compasses are as follows:— compasses fitted with electric light (one lamp of 100 watts)

A cable carrying _____ Amperes	_____ feet from standard compass	_____ feet from steering compass
A cable carrying _____ Amperes	_____ feet from standard compass	_____ feet from steering compass
A cable carrying _____ Amperes	_____ feet from standard compass	_____ 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 _____ degrees on _____ course in the case of standard compass and _____ degrees on _____ course in the case of the steering compass.

Builder's Signature. Date _____

GENERAL REMARKS.

The work has been carried out as specified above and in accordance with Norwegian law.

A. Eide & Gerbjörn Røh.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 12 OCT. 1923



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