

No. 70926

DESCRIPTION OF DYNAMO, ENGINE, ETC.

DESCRIPTION OF CABLES.

DESCRIPTION OF INSULATION, PROTECTION, ETC.

DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible *Yes, except in lower Decks if fitted with lugs.*
 What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture *Lead covered.*
 What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *Wrapped & Braided.*
 What special protection has been provided for the cables near boiler casings *Ditto.*
 What special protection has been provided for the cables in engine room *Ditto.*
 How are cables carried through beams *Bushed with Fibre.* through bulkheads, &c. *Slipping flanges*
 How are cables carried through decks *Lead covered. Cables Flanged and made watertight*
 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 *Clipped up to underside of Deck*
 Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage *Yes.*
 If so, how are the lamp fittings and cable terminals specially protected *Alloy C.P. Fittings with C.P. covers.*
 Where are the main switches and fuses for these lights fitted *in Engine Room.*
 If in the spaces, how are they specially protected *None*
 Are any switches or fuses fitted in bunkers *None*
 Cargo light cables, whether portable or permanently fixed *portable.* How fixed *Socket connections.*
 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, 2.* and with an amperemeter *Yes, 2.*, fixed *on main 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 *—*
 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.

COMPASSES.

Distance between dynamo or electric motors and standard compass *Approximately 216 feet*
 Distance between dynamo or electric motors and steering compass *" " " 208 "*
 The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
<i>28</i>	<i>inside</i>	<i>inside</i>	<i>inside</i>
<i>4.48</i>	<i>approx 12</i>	<i>approx 16</i>	<i>approx 16</i>
<i>25.5</i>	<i>" 24</i>	<i>" 20</i>	<i>" 20</i>

Have the compasses been adjusted with and without the electric installation at work at full power *—*
 The maximum deviation due to electric currents, etc., was found to be *0* degrees on *all* courses in the case of the standard compass and *0* degrees on *all* courses in the case of the steering compass.

GENERAL REMARKS.

The above Installation is also fitted with 5-15 Amp Radiators, & an Electrically Controlled Whistle from the upper and lower Bridges.
The above installation has been fitted in a satisfactory manner & in accordance with the Rules this vessel is eligible for THE RECORD Elec. light.
W.D. 3/5/18.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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into in the following groups:-

{	4	LIGHTS EACH OF 32 CANDLE POWER REQUIRING	approx 25.5 amps
	4	40 WATT Lamps	
	44	(20 WATT) LIGHTS EACH OF 16 C.P.	" " 25.5 amps.
	10	" " " 16 C.P.	" " 25.5 "
	8	" " " 8 C.P.	" " 25.5 "

{	4	" " " 16 C.P.	" " 12.5 "
	50	(20 WATT) " " " 16 C.P.	" " 12.5 "
	40	(20 ") " " " 16 C.P.	" " 8.0 "

maxon mains only	1.5 K.W.	"	" 20 "
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4 - 40 W Lamps	L EACH OF 70 W	"	" 28.0 "
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25 (20 WATT) LIGHTS	" " 16 C.P.	"	" 5.0 "
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2 - 15 Amp Radiators	Requiring approx	30 Amps
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3 - 10 " " " "	" " "	20 "
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Branch cables carrying	0	Ampere, comprised of	7	wires, each	10	S.W.G. diameter,	0.20	square
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