

Rpt. 13.

No. 60190

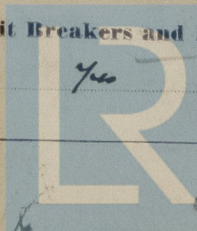
REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

SEP 21 1938

Date of writing Report 12. 9. 1938 When handed in at Local Office 19. 9. 1938 Port of Glasgow.
 No. in Survey held at Glasgow. Date, First Survey 3: 12: 37 Last Survey 10. 9. 1938
 Reg. Book. 716 76 on the T.S.S. "CANTON" (Number of Visits 22)
 Built at Glasgow By whom built A. Stephen & Son Ltd. Yard No. 557 Tons { Gross 15784
 Owners P. O. Steam Navigation Co. Port belonging to London Net 9255
 Electric Light Installation fitted by A. Stephen & Son Ltd. Contract No. 557 When built 1938
 Is the Vessel fitted for carrying Petroleum in bulk No. When fitted 1938

System of Distribution Two wire
 Pressure of supply for Lighting 220 volts, Heating 220 volts, Power 220 volts.
 Direct or Alternating Current, Lighting Direct Power Direct
 If alternating current system, state frequency of periods per second —
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes
 Generators, do they comply with the requirements regarding temperature rise Yes, are they compound wound Yes
 are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator —
 Where more than one generator is fitted are they arranged to run in parallel Yes, is an adjustable regulating resistance fitted in series with each shunt field Yes
 Have certificates of test results for machines under 100 kw. been submitted and approved Yes
 Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Yes
 Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes
 Are the lubricating arrangements of the generators as per Rule Yes
 Position of Generators In main engine room, is the ventilation in way of the generators satisfactory Yes, are they clear of all inflammable material Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators — and —
 are the generators protected from mechanical injury and damage from water, steam or oil Yes, are their axes of rotation fore and aft Yes
 Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes, are the prime movers and their respective generators in metallic contact Yes.
 Main Switch Boards, where placed Top of main engine room in special recess.
 If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard —
 Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards — and —, are they constructed wholly of durable, non-ignitable non-absorbent materials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yes, is it of an approved type Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes, is the non-hygroscopic insulating material of an approved type Yes, and is the frame effectively earthed Yes
 Are the fittings as per Rule regarding: — spacing or shielding of live parts Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, temperature rise of omnibus bars Yes, individual fuses to voltmeter, pilot or earth lamp Yes, are moving parts of switches alive in the "off" position No, are all screws and nuts securing connections effectively locked Yes, are any fuses fitted on the live side of switches No.
 Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Triple pole circuit breakers (one pole equalizer) fitted with 2 1/2 x 1/2 trips for each generator, D.P. circuit breakers as D.P. switch fuses
 Are turbine driven generators fitted with emergency trip switch as per rule Yes, Are cupboard or compartments containing switchboards composed of fire-resisting material or lined with approved material Yes
 Instruments on main switchboard 11 ammeters 2
 voltmeters — synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection Yes
 Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Earth Lamps.
 Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes, are the fusible cutouts of an approved type Yes, have the reversed



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current protection devices been tested under working conditions *Yes* Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *Yes*

Cables: Single, twin, concentric, or multicore *all types* are the cables insulated and protected as per Tables IV, V, X or XI of the Rules *Yes*

If the cables are insulated otherwise than as per Rule, are they of an approved type *—* Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *5.9 Volts* Cable Sockets, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets *Yes* Paper Insulated and Varnished Cambric Insulated Cables.

If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound *—* or waterproof insulating tape *(Varn Cambric) tape* Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage *Yes* Are cables in machinery spaces, galleys, laundries, bathrooms and lavatories lead covered or run in conduit *Yes*

Support and Protection of Cables, state how the cables are supported and protected *Main L.C. & R.C.A.B. clipped. Machinery spaces L.C.A.B. Accommodation. R.C. Public Rooms V.I.R. in conduit.*

If cables are run in wood casings, are the casings and caps secured by screws *—*, are the cap screws of brass *—*, are the cables run in separate grooves *—* If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII *Yes*

Refrigerated Chambers, are the cables and fittings in accordance with the special requirements *Yes*

Joints in Cables, state if any, and how made, insulated, and protected *None*

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *Yes* Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *Yes* state the material of which the bushes are made *Lead.*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *Cable sheathing & all apparatus bonded earthed by means of clips & glands to Rule requirement* are their connections made as per Rule *—*

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *Yes* Emergency Supply, state position and method of control of the emergency supply and how the generator is driven *—*

Navigation Lamps, are these separately wired *Yes*, controlled by separate switch and separate fuses *Yes*, are the fuses double pole *Yes* are the switches and fuses grouped in a position accessible only to the officers on watch *Yes* has each navigation lamp an automatic indicator as per Rule *Yes* Secondary Batteries, are they constructed and fitted as per Rule *—*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight *Yes* are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them: if so, how are they protected *Yes. protected by strong metal cased fittings & glass.* are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *—* how are the cables led *—*

where are the controlling switches situated *—* are all fittings suitably ventilated *Yes*, are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials *Yes*

Heating and Cooking Appliances, are they constructed and fitted as per Rule *Yes*, are air heaters constructed and fitted as per Rule *Yes*

Searchlight Lamps, No. of *One*, whether fixed or portable *—*, are their fittings as per Rule *Yes*

Arc Lamps, other than searchlight lamps, No. of *—*, are their live parts insulated from the frame or case *—*, are their fittings as per Rule *—*

Motors, are their working parts readily accessible *Yes*, are the coils self-contained and readily removable for replacement *Yes* are the brushes, brush holders, terminals and lubricating arrangements as per Rule *Yes*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *Yes* are they protected from mechanical injury and damage from water, steam or oil *Yes* are their axes of rotation fore and aft *Yes when possible* if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type *Yes* if not of this type, state distance of the combustible material horizontally or vertically above the motors *—* and *—*

have machines of over 100 H.P. been inspected by the Surveyors during manufacture and testing *—* Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule *Yes* Lightning Conductors, where lightning conductors are required, are these fitted as per Rule *—* Ships carrying Oil having a Flash Point less than 150 F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings *—* are all fuses of the fitted cartridge type *—* are they of an approved type *—*

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office *—*

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule *Yes.*

Rpt. 9a.

Port of *Glasgow.*

Continuation of Report No. *60190* dated *10-9-38* on the

T.S.S. "CANTON."

DESCRIPTION	CONDUCTORS No. AREA	CORR. OF STRANDS No. DIAM.	TOTAL MAX CURRENT (AMPS) CIRCUIT	RULE	APPROX LENGTH L.F. (FEET)	INSULATION	PROTECTION
AVG. SWITCHBOARD "A" CIRCUITS							
SECTION BOX A.P.1. FANS	1 .06	19 .064	94	135	210	VARN. CAMB.	L.C.
GYRO ROT CONTROL PANEL	1 .01	7 .044	30	31	225	RUBBER	"
CONTROL BATTERY PANEL	1 .01	7 .044	30	31	285	"	"
PASSENGER LIFT	1 .0225	7 .064	29.3	75	240	V.C.	"
SECTION BOX A.P.2 FANS	1 .0225	7 .064	47	75	195	"	"
" " A.P.3 "	1 .0225	7 .064	41.6	75	375	"	"
" " A.P.4. "	1 .0225	7 .064	59	75	240	"	"
NAVIGATION LIGHTS DB AL1	1 .01	7 .044	13.75	31	270	RUBBER	"
PUBLIC RM Ltg. SECT. BOX AL3	1 .0225	7 .064	22.9	75	90	V.C.	"
OFFICERS Ltg. " AL2	1 .0045	7 .029	10.1	18.2	270	RUBBER	"
DINING ROOM " AL8	1 .0225	7 .064	25.8	75	165	V.C.	"
1st Acc. Ltg. FOR " AL4.	1 .04	19 .052	85.8	104	60	"	"
" " BERTH Ltg. " AL5	1 .007	7 .036	17.9	24	63	RUBBER	"
HOLD - CARGO Ltg. " AL6	1 .0225	7 .064	47.6	75	60	V.C.	"
COLD STORES ETC Ltg. AL9.	1 .0045	7 .029	7.3	18.2	150	RUBBER	"
CREWS QRS. Ltg. " AL7.	1 .0225	7 .064	28	75	336	V.C.	"
SECTION BOX A.H.1. HEATERS	1 .04	19 .052	86.3	104	310	"	"
" " A.H.2. "	1 .06	19 .064	99.8	135	150	"	"
" " A.H.3. "	1 .04	19 .052	68	104	135	"	"
" " A.H.4. "	1 .04	19 .052	73	104	375	"	"
" " A.H.5. "	1 .06	19 .064	119	135	60	"	"
" " A.H.6. "	1 .10	19 .083	132.4	191	375	"	"
" " A.H.7. "	1 .04	19 .052	79.5	104	210	"	"
" " A.H.8. "	1 .10	19 .083	149	191	180	"	"
AVG. SWITCHBOARD "B" CIRCUITS							
SECTION BOX B.P.1. FANS	1 .10	19 .083	130.7	191	300	"	"
" " B.P.2. "	1 .06	19 .064	90	135	290	"	"
" " B.P.3. CINEMA	1 .0225	7 .064	20	75	426	"	"
" " B.P.4. FANS	1 .04	19 .052	73	104	90	"	"
" " B.H.1. HEATERS	1 .0225	7 .064	54.6	75	198	"	"
" " B.H.2. "	1 .06	19 .064	95.2	135	180	"	"
" " B.H.3. "	1 .04	19 .052	81.7	104	120	"	"
" " B.H.4. "	1 .10	19 .083	140	191	60	"	"
" " B.H.5. "	1 .06	19 .064	116	135	60	"	"
" " A.H.6. "	1 .0225	7 .064	62.4	75	240	"	"
" " B.L.1. PUBLIC RM AND DECK Ltg.	1 .0225	7 .064	18.7	75	160	"	"
" " B.L.2. DANCING SPACE LIGHTING	1 .0225	7 .064	35	75	150	"	"
" " B.L.3. Acc. DECK Ltg	1 .0225	7 .064	38.2	75	60	"	"
" " B.L.4. Acc. BERTH Ltg	1 .0045	7 .029	6.4	18.2	90	RUBBER	"
" " B.L.5. 1st Acc. Ltg	1 .0225	7 .064	59.1	75	150	V.C.	"
" " B.L.6. 1st Acc. BERTH Ltg	1 .0045	7 .029	13	18.2	150	RUBBER	"
" " B.L.7. ENGINEERS' QRS LIGHTING	1 .0045	7 .029	14	18.2	60	"	"
" " B.L.8. GALLEY LIGHTING	1 .0225	7 .064	29.3	75	120	V.C.	"
" " B.L.9. DINING RM Ltg	1 .01	7 .044	26	31	90	RUBBER	"

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Port of *Glasgow*.

Continuation of Report No. 6 dated 10.9.38 on the

T.S.S. "CANTON"

DESCRIPTION	CONDUCTORS No.	AREA	NO. OF STRANDS	DIAM.	TOTAL MAX. CURRENT (AMPS)	RULE	APPROX. LENGTH L.F. (FEET)	INSULATION	PROTECTION
AUX. SWITCHBOARD C. CIRCUITS. CAPSTAN PANEL	1	.30	37	.103	285	385	210	VAC. CHAMBER	L.C.
SECTION BOX C.P.I. FANS	1	.0225	7	.064	58	75	120	"	"
" " CH2. CHIMNEY CONNECTION	1	.0225	7	.064	20	75	270	"	"
" " CP3. FANS	1	.10	19	.083	122	191	270	"	"
" " C.P.I. LAUNDRY MOTORS	1	.0225	7	.064	49.2	75	270	"	"
" " CH1. HEATERS	1	.04	19	.052	59	104	120	"	"
" " CH2	1	.0225	7	.064	39.4	75	270	"	"
" " CH3	1	.06	19	.064	118	135	160	"	"
" " CH4	1	.04	19	.052	70.5	104	195	"	"
" " CH5	1	.04	19	.052	67.7	104	228	"	"
" " C.L.1 LOUNGE 1 st ACC. DAVENY 2 nd ACC. DAVENY	1	.007	7	.036	17.9	24	90	RUBBER	"
" " C.L.2 2 nd CLASS LIT.	1	.01	7	.044	22	31	90	"	"
" " C.L.3 2 nd CLASS LIT.	1	.0225	7	.064	44.9	75	60	V.C.	"
" " C.L.4 2 nd CLASS LIT.	1	.0225	7	.064	58.8	75	60	"	"
" " C.L.5 2 nd CLASS LIT.	1	.01	7	.044	25.5	31	60	RUBBER	"
" " C.L.6 2 nd CLASS LIT.	1	.007	7	.036	20.6	24	165	"	"
AUX. SWITCHBOARD (D) CIRCUITS NATIVE GALLEY RANGE PANEL	1	.06	19	.064	109	135	690	V.C.	L.C.A.B.
GALLEY RANGE 1st SALOON PANTRY	1	.15	37	.072	219	246	240	"	"
" " " " " "	1	.15	37	.072	244	246	240	"	"
" " " " " "	1	.10	19	.083	146	191	210	"	"
" " " " " "	1	.10	19	.083	146	191	210	"	"
FOSTER 2nd SALOON PANTRY	1	.01	7	.044	26	31	276	RUBBER	"
SECT. BOX D.P.S. RESID. MENYER	1	.0225	7	.064	52	75	300	V.C.	"
" " D.P.L. GRIDDLE ETC.	1	.0225	7	.064	48.5	75	198	"	"
BAKERS OVEN	1	.06	19	.064	91	135	198	"	"
SECT. BOX D.P.S. DISH WASHERS	1	.01	7	.044	29.7	31	198	RUBBER	"
WHIPPING DRUM. PORT.	1	.01	7	.044	26	31	210	"	"
" " STAR	1	.01	7	.044	26	31	210	"	"
SECT. BOX D.P.I. RESID. MENYER	1	.0225	7	.064	47	75	144	V.C.	"
" " D.P.2 DISH WASHERS	1	.01	7	.044	24	31	210	RUBBER	"
GRILL IN SALOON PANTRY	1	.0225	7	.064	41.6	75	210	V.C.	"
" " " " " "	1	.0225	7	.064	41.6	75	210	"	"
AUX. SWITCHBOARD F POWER CIRCUITS STEERING GEAR PANEL	1	.15	37	.072	174	246	468	"	"
SECT. BOX E.P.1 BOAT WINCHES	1	.06	19	.064	98.6	135	200	"	"
" " E.P.2 W/T. DOORS	1	.0225	7	.064	40	75	600	"	"
SUPPLY EMERGENCY TO MAIN SW	1	.30	37	.103	250	385	600	"	"
" " MAIN SW TO EM. BARR.	1	.30	37	.103	250	385	600	"	"
EMERGENCY SWITCHBOARD LIGHTING CIRCUITS EM. SUPPLY TO AUX B9 'A'	1	.0225	7	.064	26	75	360	"	"
" " " " 'B'	1	.0225	7	.064	40	75	260	"	"
" " " " 'C'	1	.0225	7	.064	13.2	75	580	"	"
SECT. BOX E.1	1	.007	7	.036	6.6	24	336	RUBBER	"
" " E.2	1	.0225	7	.064	21.8	75	336	V.C.	"
" " E.3	1	.003	3	.036	2.7	12	60	RUBBER	"

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T.S.S. 'CANTON'.

DESCRIPTION	CONDUCTORS No. BY CABLE	AREA	CONC. OF STEEL	DIAM.	TOTAL MAX. CURRENT (AMPS)	RULE	APPROX. LENGTH (FEET)	INSULATION	PROTECTION.
AUXILIARY SWITCHBOARD 'F' CIRCUITS SECTION Box F.S.1. BOMB PUMP	1	'01	7	'044	25	31	125	RUBBER	L.C.M.B.
" " F.S.2 FANS	1	'0225	7	'064	56.8	75	60	V.C.	"
AUXILIARY BOARD 'G' CIRCUITS SECTION Box G.S.1. WORKSHOP ETC	1	'04	19	'052	74.2	104	96	"	"
" " G.S.2. F.W. PUMP ETC	1	'06	19	'064	99.3	135	160	"	"
" " G.S.3 TURNING MACHINERY	1	'06	19	'064	99.8	135	160	"	"
MAIN SWITCHBOARD CIRCUITS E.R. FANS SECTION Box M.S.2.	1	'15	37	'072	128	246	215	"	"
B.R. " " M.S.1.	1	'10	37	'083	175	191	230	"	"
STEERING GEAR SUPPLY (PORT)	1	'15	37	'072	174	246	714	"	"
" " (STARBOARD)	1	'15	37	'072	174	246	837	"	"
SHORE CONNECTION MOTOR CONDUCTORS	2	'10	61	'103	-	1080	2344	"	"
AUX CIRCULATING PUMP	1	'10	19	'083	153	191	246	"	"
DISTILLED WATER "	1	'01	7	'044	27	31	246	RUBBER	"
OILY BILGE PUMP	1	'0045	7	'029	12.7	18.2	120	"	"
O.F. PRESSURE PUMP (HARBOUR)	1	'003	3	'036	6.45	12.0	200	"	"
" " (2) MAIN	1	'0025	7	'064	19.2	76	300	V.C.	"
HARBOUR FEED PUMP	1	'15	37	'072	212	246	310	"	"
REFRIGERATING MACHINERY COMPRESSORS (2)	1	'30	37	'103	330	385	90	"	"
SEA WATER PUMP	1	'01	7	'044	30	31	80	RUBBER	"
BRINE PUMPS (3)	1	'0225	7	'064	35	75	110	V.C.	"
PUMPING BY BRINE PUMPS (2)	1	'002	3	'029	3.5	7.4	120	RUBBER	"
REFRIG. FANS 1/2 HP. (1)	1	'01	7	'044	29	31	96	"	"
" " 1/2 HP. (1)	1	'007	7	'036	19	24	108	"	"
" " 1 HP. (3)	1	'002	3	'029	5	7.8	220	"	"
" " 2 HP. (2)	1	'003	3	'036	8.5	12	120	"	"

PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts.	Volts.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	3	450	220	2045	1000	Steam Turbines		
AUXILIARY ...								
EMERGENCY ...	1	55	220	250	60	Diesel Engine	Diesel Oil	Above 150° F.
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR ...	3	2.65	127	.093	2045	2445	160	Vam. Carbitic	L. C. A. B.
EQUALISER CONNECTIONS ...	2	1.80	91	.093	-	1248	80	"	"
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR ...	1	.30	37	.103	250	385	78	"	"
ROTARY TRANSFORMER ...									
ENGINE ROOM ...	1	.04	19	.052	61	104	90	"	L. C. A. B.
BOILER ROOM ...									
AUXILIARY SWITCHBOARDS A ...	2	1.5	91	.103	1075	1476	330	"	L. C.
" " B ...	1	.75	91	.103	660	788	400	"	"
" " C ...	1	1.0	127	.103	876	932	260	"	"
" " D ...	2	1.5	91	.103	673	932	490	"	"
" " E ...	1	.30	37	.103	240	385	620	"	"
ACCOMMODATION ...	1	1.0	127	.103	550	932	380	"	L. C. A. B.
" " G ...	1	1.0	127	.103	900	932	270	"	"
WIRES (19' Base Supply)	1	.007	7	.036	15	24	360	Rubber	L. C.
SEARCHLIGHT ...	1	.0225	7	.064	55	75	180	V. C.	"
MASTHEAD LIGHT ...	1	.002	3	.029	18	7.8	350	Rubber	"
SIDE LIGHTS ...	1	.002	3	.029	18	7.8	60	"	"
COMPASS LIGHTS ...	1	.002	3	.029	10	7.8	60	"	"
POOP LIGHTS ...									
CARGO LIGHTS ...									
ARC LAMPS ...									
HEATERS ...									

MOTOR CONDUCTORS.										
DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP ...	1	1	.10	19	.082	155	191	130	V. C.	L. C. A. B.
MAIN BILGE LINE PUMPS	1	1	.10	19	.082	155	191	100	"	"
AUX. CIRCULATING PUMP	1	1	.10	19	.082	153	191	246	"	"
GENERAL SERVICE PUMP	1	1	.10	19	.082	145	191	310	"	"
EMERGENCY BILGE PUMP	2	1	.10	19	.082	155	191	160	"	"
SANITARY PUMP	2	1	.10	19	.082	155	191	160	"	"
INDUCED DRAUGHT FANS	4	1	.04	19	.052	89	104	500	"	"
LAUNDRY MOTOR	1	1	.01	7	.044	31.8	31	120	Rubber	"
COLD FRESH WATER PUMPS	1	1	.0225	7	.064	44	75	300	V. C.	"
AIR COMPRESSOR	3	1	.01	7	.044	27	31	130	Rubber	"
FRESH WATER PUMP	2	1	.0225	7	.064	30	75	110	V. C.	"
ENGINE TURNING GEAR	1	1	.007	7	.036	18.5	24	110	Rubber	L. C.
TUNNEL VENT. FAN	2	1	.04	19	.052	92	104	150	V. C.	"
LUBRICATING OIL PUMPS	2	1	.0225	7	.064	47	75	290	"	L. C. A. B.
OIL FUEL TRANSFER PUMP	2	1	.20	37	.083	238	296	120	"	"
CAPTAIN'S AFT	2	1	.30	37	.103	170	385	60	"	L. C.
WINCHES, FORWARD 3TON	2	1	.06	19	.064	120	135	240	"	"
" MIDSHP 3TON	4	1	.06	19	.064	120	135	180	"	"
WINCHES, AFT 3TON	8	1	.06	19	.064	120	135	190	"	"
" BOAT	6	1	.0225	7	.064	49.3	75	190	"	"
FORCED DRAUGHT FANS	4	1	.04	19	.052	79	104	400	"	L. C. A. B.
STEERING GEAR										
(a) MOTOR GENERATOR	2	1	.15	37	.072	174	246	760	"	"
(b) MAIN MOTOR	1	1	.01	7	.044	22	31	160	Rubber	"
WORKSHOP MOTOR	4	1	.0225	7	.064	32	75	330	V. C.	"
VENTILATING FANS	2	1	.003	3	.036	10.5	12	120	Rubber	"
LUB. OIL PURIFIERS	2	1	.0225	7	.064	30.6	75	110	V. C.	"
SEWAGE PUMPS	1	1	.15	37	.072	211	246	228	"	"
FIRE SPRINKLER PUMP	1	1	.01	7	.044	27	31	180	Rubber	"
AUX. BILGE PUMP	2	1	.0225	7	.064	64	75	220	V. C.	"
MAIN EXTRACTION PUMPS	3	1	.01	7	.044	26	31	186	Rubber	"
AUX. " "	1	1	.0225	7	.064	41	75	120	V. C.	"
BATH HEATER PUMP										

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All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

FOR
ALEXANDER STEPHEN & SONS LIMITED

Electrical Engineers.

Date

15/9/38

A. M. Stephen

Director

COMPASSES.

Distance between electric generators or motors and standard compass

14 ft

Distance between electric generators or motors and steering compass

20 ft

The nearest cables to the compasses are as follows:—

A cable carrying .09 Ampères inside feet from standard compass inside feet from steering compass.

A cable carrying 1.3 Ampères 14 feet from standard compass 20 feet from steering compass.

A cable carrying 13.7 Ampères 45 feet from standard compass 30 feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power

Yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be no degrees on

Any

course in the case of the standard

compass, and no degrees on

Any

course in the case of the steering compass.

FOR
ALEXANDER STEPHEN & SONS LIMITED

Builder's Signature.

Date

15/9/38

A. M. Stephen

Director

Is this installation a duplicate of a previous case

6

If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, etc.)

The electrical equipment of this vessel has been fitted on board under special survey, tested under full working conditions & found satisfactory. The materials and workmanship are good.

W. H. L.

22/9/38

286
19/9/38

Total Capacity of Generators 1405 Kilowatts.

The amount of Fee ... £ 80 : 2 : 6
(4/5 due Glasgow £64. 2. 0)
(1/5 due London 16. 0. 0)
Travelling Expenses (if any) £ 4 : 9 : 6
due London.

When applied for,

20/9/38

When received,

19/11/38

V. Haffner *R. I. Hurchison*
Surveyors to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 SEP 1938

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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Foundation