

**REPORT ON ELECTRIC FITTINGS.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 20 NOV 1929

Date of writing Report 29.10.1929 When handed in at Local Office 19.11.1929 Port of GLASGOW.

No. in Survey held at GREENOCK. Date, First Survey 20.9.29 Last Survey 8.11.1929  
Reg. Book. (Number of Visits 10)39476 on the M.V. BONNINGTON COURT Tons { Gross 4909.  
Net

Built at PORT GLASGOW. By whom built MESSRS R. DUNCAN &amp; CO Yard No. 392 When built 1929

Owners MESSRS THE COURT LINE LTD Port belonging to LONDON.

Electric Light Installation fitted by MESSRS CAMPBELL &amp; ISHERWOOD LTD Contract No. 392 When fitted 1929.

**System of Distribution**

Pressure of supply for Lighting 110 volts, Heating — volts, Power 110 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 rating 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 No, is an adjustable regulating resistance fitted in series with each shunt field No

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

Position of Generators Engine room Bottom Platform

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 Engine room Bottom Platform Port Side

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 Yes

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, 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

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, proportion of omnibus

bars Yes, individual fuses to voltmeter, pilot or earth lamp Yes, connections of switches Yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

Standard Quick Break Knife Switches Handle Type Fuses

Instruments on main switchboard 2 ammeters 2 voltmeters — synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Lamps

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes



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Lloyd's Register  
Foundation

W340-0116 (1/2)



*Single*  
Cables: *Single*, twin, concentric, or multicore *are* the cables insulated and protected as per Tables IV or V of the Rules *Yes*  
Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *400 volts*  
Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets *Yes*  
Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound *Yes*  
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 surfaces, or to avoidable risk of mechanical damage *Yes*  
Support and Protection of Cables, state how the cables are supported and protected *L.C. in Subing*  
If cables are run in wood casings, are the casings and caps secured by screws *Yes*, are the cap screws of brass *Yes*, are the cables run in separate grooves *Yes*  
If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII *Yes*  
Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *Yes*  
Joints in Cables, state if any, and how made, insulated, and protected *No joints.*  
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 *Fibre*  
Earthing Connections, state what earthing connections are fitted and their respective sectional areas *Connections between Brass Washers equal to .5 sq. inch*  
are their connections made as per Rule  
Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule  
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  
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  
Searchlight Lamps, No. of *1*, whether fixed or portable *Portable*, are their fittings as per Rule *Yes*  
Are Lamps, other than searchlight lamps, No. of *1*, are their live parts insulated from the frame or case *Yes*, 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*  
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  
if not of this type, state distance of the combustible material horizontally or vertically above the motors *—* and *—*  
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  
If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office

PARTICULARS OF GENERATING PLANT.									
DESCRIPTION OF GENERATOR.	No. of	RATED AT			Revs. per Min.	DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.		
		Kilowatts.	Volts.	Ampères.			Fuel Used.	Flash Point of Fuel.	
MAIN	2	15 each	110	136	340	Single cylinder Steam Engine			
AUXILIARY									
EMERGENCY									
ROTARY TRANSFORMER									

LIGHTING AND HEATING CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR	4		37	.064	136	30	VIR	L.C. in Subing
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM								
	BOILER ROOM			7	.044	22	10	VIR	L.C. in Subing
	ACCOMMODATION	2		19	.052	36	200	"	"
	"	2		7	.064	30	160	"	"
	WIRELESS	2		7	.044	15	350	VIR	Subing
	SEARCHLIGHT	2		3	.052	60	600	"	"
	MASTHEAD LIGHT	2		3	.036	60	700	"	"
	SIDE LIGHTS	4		3	.029	60	80	"	L.C.
	COMPASS LIGHTS	4		3	.029	2	20	"	"
	POOP LIGHTS								
	CARGO LIGHTS	4		7	.036	11	150	VIR	Subing
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS								
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR								
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	(a) MOTOR GENERATOR								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR	1		7	.044	25	100	VIR	L.C. in Subing
	VENTILATING FANS	2		7	.064	44	120	"	"
	Oil Transfer								



All Conductors are of annealed copper conforming to British Standard Specification No. 7.  
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.  
The foregoing is a correct description.

AMPBELL & ISHERWOOD, LTD.

Electrical Engineers.

Date

11/11/29

#### COMPASSES.

Distance between electric generators or motors and standard compass

180 ft

Distance between electric generators or motors and steering compass

175 "

The nearest cables to the compasses are as follows:—

A cable carrying 15 Ampères 20 feet from standard compass 15 feet from steering compass.

A cable carrying 25 Ampères 30 feet from standard compass 25 feet from steering compass.

A cable carrying Ampères 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

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 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.

Robert Duncan & Co Ltd

Builder's Signature.

Date

14/11/29

Is this installation a duplicate of a previous case No. If so, state name of vessel

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

This installation has

been fitted on board under special survey.  
Tested under full working conditions  
and found satisfactory.

The materials and workmanship were  
found to be good and sound.

It is submitted that  
this vessel is eligible for  
THE RECORD.

Elec. Light

R.D.

21/11/29

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 23.0.0

When applied for,

CLK

Travelling Expenses (if any) £ 10.6

When received,

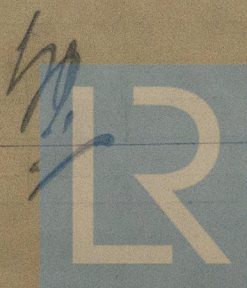
9.11.19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 19 NOV 1929

Assigned

Elec Light



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