

Rpt. 13.

No. 17182

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 14 NOV 1932

Received at London Office.....

Date of writing Report 12-11-1932 When handed in at Local Office 12-11-1932 Port of Aberdeen

No. in Survey held at Aberdeen Date, First Survey 21-10-32 Last Survey 3-11-1932  
(Number of Visits.....5)Reg. Book on the S. S. "PARKNASILLA" Tons { Gross 845.88  
Net 448.26

Built at Aberdeen By whom built J. Lewis &amp; Sons Ltd. Yard No. 127 When built 1932

Owners John Kelly, Ltd. Port belonging to Belfast

Electric Light Installation fitted by J. Lewis &amp; Sons Ltd. Contract No. When fitted 1932

Is the Vessel fitted for carrying Petroleum in bulk No.

## System of Distribution

Pressure of supply for Lighting 110 volts, Heating volts, Power volts.

Direct or Alternating Current, Lighting Direct Current Power

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, is an adjustable regulating resistance fitted in

series with each shunt field

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 Starboard side of 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

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 In engine room near dynamo.

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, 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

and is the frame effectively earthed 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 D.P. switch +

D.P. fuses to generator, S.P. switch + D.P. fuses to each outgoing

circuit.

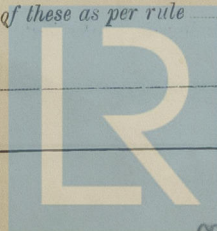
Instruments on main switchboard one ammeters one voltmeters synchronising device for paralleling purposes.

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

Earth 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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Cables: Single, twin, concentric, or multicore Single & twin are the cables insulated and protected as per Tables IV, V, XI or XIII of the Rules yes  
Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 2 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 none  
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  
Support and Protection of Cables, state how the cables are supported and protected Clipped to under side of decks and to bulkheads  
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 none  
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 through earth lamps  
yes, are their connections made as per Rule yes  
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 none  
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 yes (Batteries for wireless only)  
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 none  
are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected none  
yes, how are the cables led yes  
where are the controlling switches situated yes  
Searchlight Lamps, No. of none, whether fixed or portable yes, are their fittings as per Rule yes  
Arc Lamps, other than searchlight lamps, No. of none, are their live parts insulated from the frame or case yes, are their fittings as per Rule yes  
Motors, are their working parts readily accessible none, 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 yes, if not of this type, state distance of the combustible material horizontally or vertically above the motors yes and yes  
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 yes  
Ships carrying Oil having a Flash Point less than 130° 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 yes  
If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office yes

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	1	5	110	45.5	430	Steam engine.			
AUXILIARY									
EMERGENCY									
ROTARY TRANSFORMER									

GENERATOR, LIGHTING AND HEATING CONDUCTORS.									
DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR	1	0.03960	19	.052	37.25	64	24	V.I.R.	Steel tube
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER									
ENGINE ROOM	2	0.00194	3	.029	10.3	7.8	72	"	L.C. & armoured.
BOILER ROOM	1	"	"	"	1.5	"	120	"	"
AUXILIARY SWITCHBOARDS	1	0.00299	3	.036	7	12	340	"	"
1. Forecable & deck	1	"	"	"	11.5	"	240	"	"
2. Accommodation & deck	1	"	"	"	9.75	"	260	"	"
3. Navigation	1	"	"	"	9	"	18	"	"
4. Engine room & deck	1	"	"	"	9	"		"	"
ACCOMMODATION	1	0.00194	3	.029	1.5	7.8	56	"	L.C.
Midship	3	"	"	"	1.5	"	44	"	"
Aft	2	"	"	"	1.5	"	40	"	L.C. & armoured.
File	3	"	"	"	1.5	"	40	"	"
WIRELESS	1	"	"	"	7	"	6	"	L.C.
SEARCHLIGHT	1	0.00194	3	.029	1.5	7.8	172	"	L.C. & armoured.
MASTHEAD LIGHTS	1	"	"	"	1.5	"	40	"	L.C.
SIDE LIGHTS	1	"	"	"	1.5	"	16	"	"
COMPASS LIGHTS	1	"	"	"	1.5	"	300	"	L.C. & armoured.
POPE LIGHTS	1	"	"	"	2.5	"	32	"	"
CARGO LIGHTS	1	"	"	"	2.5	"	88	"	"
ARC LAMPS	1	"	"	"	2.5	"	16	"	"
HEATERS	1	"	"	"	2.5	"		"	"

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 Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
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										
VENTILATING FANS										



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.

JOHN LEWIS & SONS Ltd.

C. C. Wilson

Electrical Engineers.

Date 11<sup>th</sup> Nov 1932.

#### COMPASSES.

Distance between electric generators ~~or motors~~ and standard compass

Distance between electric generators ~~or motors~~ and steering compass

105 ft.

The nearest cables to the compasses are as follows:—

A cable carrying .5 Ampères feet from standard compass 3 feet from steering compass.

A cable carrying 2.5 Ampères feet from standard compass 3 feet from steering compass.

A cable carrying .25 Ampères feet from standard compass 5 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 yes

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and 2 degrees on any course in the case of the steering compass.

JOHN LEWIS & SONS Ltd.

C. C. Wilson

Builder's Signature.

Date 11<sup>th</sup> Nov 1932.

SHIPYARD MANAGER

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.)

The electrical installation of this vessel has been fitted on board under Special Survey, tried under working conditions, and found good.

It is eligible in my opinion to have the word "Electric Light" in the Register Book.

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

Elec. Light

P. Fitzgerald

15/11/32

Total Capacity of Generators 5 Kilowatts.

The amount of Fee ... £ 5 : - : When applied for, 11-11-1932

Travelling Expenses (if any) £ : : When received, 31-1-1933

P. Fitzgerald

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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