

Rpt. 13.

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 100,896  
 Date of writing Report 14<sup>th</sup> Nov 1934 When handed in at Local Office 21 DEC 1934 Port of LONDON  
 No. in Survey held at FAVERSHAM Date, First Survey 20 OCTOBER Last Survey 11<sup>th</sup> DEC 1934  
 Reg. Book. on the M/V "CAMROUX I" Tons { Gross 323 Net 184  
 Built at FAVERSHAM By whom built JAS. POLLOCK & SONS & CO. Ld. Yard No. 465 When built 1934  
 Owners NEWCASTLE COAL & SHIPPING CO. LD. Port belonging to LONDON  
 Electric Light Installation fitted by MACKAY & CO. FENCHURCH ST LONDON Contract No. When fitted 1934  
 Is the Vessel fitted for carrying Petroleum in bulk NO

System of Distribution DOUBLE WIRE ✓ volts, Power — volts.

Pressure of supply for Lighting 50 volts, Heating —

Direct or Alternating Current, Lighting DIRECT ✓ 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 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

Position of Generators AFT STAR<sup>2</sup> SIDE 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

NONE

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

Earthling, are the bedplates and frames of the generating plant efficiently earthed YES

their respective generators in metallic contact YES

Main Switch Boards, where placed ENGINE ROOM STAR<sup>2</sup> 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 —

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

permanently high insulation resistance YES, is all insulation of high dielectric strength and of

with mica or micaite 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 EXCEPT VOLTAGE, 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

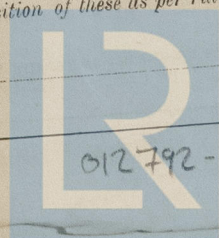
D.P. SWITCHES FOR LIGHTING & BATTERY

Instruments on main switchboard 2 ammeters 1 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 NONE

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 - TWINS* 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

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 *NONE*

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 *✓*

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 *STEEL TUBES IN E.R.*

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 *✓*

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *✓*

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

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 *✓*

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 *NONE*

Navigation Lamps, are these separately wired *0/2*, controlled by separate switch and separate fuses *✓*, are the fuses double pole *✓*, are the switches and fuses grouped in a position accessible only to the officers on watch *✓*, has each navigation lamp an automatic indicator as per Rule *✓*

Secondary Batteries, are they constructed and fitted as per Rule *YES*

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 *✓*, whether fixed or portable *✓*, are their fittings as per Rule *✓*

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 *✓*, are the coils self-contained and readily removable for replacement *✓*

are the brushes, brush holders, terminals and lubricating arrangements as per Rule *✓*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *✓*

are they protected from mechanical injury and damage from water, steam or oil *✓*, are their axes of rotation fore and aft *✓*

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 *✓*

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				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	<i>1</i>	<i>1 1/2</i>	<i>50/73</i>	<i>24.5</i>	<i>600</i>	<i>DIESEL ENGINE</i>	<i>DIESEL OIL</i>	<i>ABOVE 150°</i>
AUXILIARY ...	<i>✓</i>							
EMERGENCY ...	<i>✓</i>							
ROTARY TRANSFORMER	<i>✓</i>							

## 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 ...	<i>1</i>	<i>0.046</i>	<i>7</i>	<i>.044</i>	<i>24.5</i>	<i>31. ✓</i>	<i>8 FT</i>	<i>RUBBER</i>	<i>LEAD COVERED</i>
EQUALISER CONNECTIONS ...	<i>✓</i>								
AUXILIARY GENERATOR ...	<i>✓</i>								
EMERGENCY GENERATOR ...	<i>✓</i>								
ROTARY TRANSFORMER } MOTOR ...	<i>✓</i>								
GENERATOR ...	<i>✓</i>								
ENGINE ROOM ...	<i>1</i>	<i>.00455</i>	<i>7</i>	<i>.029</i>	<i>4.5</i>	<i>18.2 ✓</i>	<i>3 FT</i>	<i>RUBBER</i>	<i>PAIRED IN TUBES</i>
BOILER ROOM ...	<i>✓</i>								
AUXILIARY SWITCHBOARDS ...	<i>✓</i>								
ACCOMMODATION ...	<i>1</i>	<i>.00701</i>	<i>7</i>	<i>.036</i>	<i>10</i>	<i>24 ✓</i>	<i>36 FT.</i>	<i>RUBBER</i>	<i>LEAD COVERED</i>
WIRELESS ...	<i>✓</i>								
SEARCHLIGHT ...	<i>✓</i>								
MASTHEAD LIGHT ...	<i>✓</i>								
SIDE LIGHTS ...	<i>✓</i>								
COMPASS LIGHTS ...	<i>1</i>	<i>.00194</i>	<i>3</i>	<i>.029</i>	<i>4.5</i>	<i>7.8 ✓</i>	<i>40 FT</i>	<i>RUBBER</i>	<i>LEAD COVERED</i>
POOP LIGHTS ...	<i>✓</i>								
CARGO LIGHTS ...	<i>✓</i>								
ARC LAMPS ...	<i>✓</i>								
HEATERS ...	<i>✓</i>								

## 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 ...										



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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.

Mackay & Co.

Electrical Engineers.

Date Dec 14<sup>th</sup> 1934

#### COMPASSES.

Distance between electric generators or motors and standard compass 25 FT

Distance between electric generators or motors and steering compass ✓

The nearest cables to the compasses are as follows:—

A cable carrying / Ampères 2 feet from standard compass — feet from steering compass.

A cable carrying ✓ Ampères ✓ feet from standard compass ✓ 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 YES

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

Builder's Signature.

Date

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 generating set N. 11643/6 engine by R. A. Lester & Co and dynamo by Mawdsley & Co as reported on Bristol Report N. 13118 has been satisfactorily fitted on board and examined under working condition. The electric wiring and fittings are in accordance with the rules and approved plans, the workmanship is good.

Noted  
21/12/34

AL

Total Capacity of Generators 1.5 Kilowatts.

The amount of Fee ... £ 5 : 0 :  
When applied for, 21 DEC 1934  
Travelling Expenses (if any) £ : :  
When received, 5-1-35

H. M. C. C. C.  
Surveyor to Lloyd's Register of Shipping.

FRI. 21 DEC 1934

Committee's Minute

Assigned

See J. S. Mackay

Im. 6.20—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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