

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 27 JUN 1927

Date of writing Report 19 When handed in at Local Office 25/6/27 Port of Newcastle-on-Tyne

No. in Survey held at Newcastle. Date, First Survey 18 March/26 Last Survey 16 May 1927
Reg. Book.

79781 on the M.V. Pecten

(Number of Visits 49)

Tons { Gross 7725
Net 4450

Built at Newcastle. By whom built Palmers & Co Ltd Yard No. 955 When built 1926

Owners Anglo Saxon Petroleum Co Ltd Port belonging to London

Electric Light Installation fitted by Power by J. H. Holmes, Newcastle Contract No. 955 When fitted 1927

System of Distribution Two wire system

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 Yes, 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 Are the lubricating arrangements of the generators as per Rule Yes

Position of Generators Lighting started side of tween deck in Eng 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 (Lighting) started side of tween deck in engine room.

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 micawile 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 Lighting 150 A. D.P.C.B.

for each generator interlocked with equalizer switch fitted with overload, reverse trip & time lags. 50 A. D.P. 5 on each outgoing circuit.

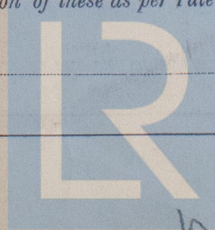
Instruments on main switchboard 2 ammeters 2 voltmeters — synchronising device for paralleling purposes.

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

be earth through switches & fuses

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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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office Yes. ✓

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. m. amp.	Approxim to Temp. (Load 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 ...	1	.1478	37	.072	157 ✓	260	V. I. R.	Lead covered
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	1	.1478	37	.072	146 ✓	40	50	50
	OIL FUEL TRANSFER PUMP	2	.06	19	.064	70 ✓	176+122	50	50
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR—								
	(a) MOTOR GENERATOR...	2	.3024	37	.103	227 ✓	360	V. I. R.	Lead covered
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS								
	Refrigerator	1	.1009	19	.083	90 ✓	384	50	50
	Cooling Water pump	1	.1964	37	.083 each	350 ✓	220	50	50
	Workshop Emergency Wheel	1	.00791	7	.036	18.0 ✓	30	50	50
	" Drilling	1	.02314	7	.064	26.0 ✓	40	50	50
	" Lathe	1	.01462	7	.052	26.0 ✓	30	50	50
	Oil Purifier	2	.01462	7	.052	23.8 ✓	84	50	50
	Vent Fan motor	2	.01462	7	.052	26.0 ✓	36	50	50
	Fuel oil purifier	1	.00229	3	.036	8.0 ✓	100	50	50

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.

For J. H. HOLMES & CO Electrical Engineers.

Date 20/6/27

Oliver Holmes (for Power Wiring)

Watkinson (for Lighting, Steering & Refrigerating plant wiring)
Palmer's Shipbuilding Co. 24/6/27

COMPASSES.

Distance between electric generators or motors and standard compass 210 feet

Distance between electric generators or motors and steering compass 206 feet

The nearest cables to the compasses are as follows:—

A cable carrying 28 Amperes on the ~~side~~ from standard compass 10 feet from steering compass.

A cable carrying 28 Amperes 7 feet from standard compass on the ~~side~~ from steering compass.

A cable carrying Amperes 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 degrees on course in the case of the standard

compass, and degrees on course in the case of the steering compass.



PALMER'S SHIPBUILDING & IRON CO., LTD.

Builder's Signature.

Date 24/6/27.

W. T. Badger

SHIPYARD MANAGER

Is this installation a duplicate of a previous case Yes If so, state name of vessel M.V. Marhessa.

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

The above installation is in accordance with the Society's Rules.
The vessel is eligible in my opinion for notation elec light
unless

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

Elec. Light.

W.T. 27/6/27

Total Capacity of Generators 124 Kilowatts.

The amount of Fee ... £ 32.14 + { When applied for, 9/6/19.27

Travelling Expenses (if any) £ : : { When received, 20/6/19.27

W.T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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