

Rpt. 13.

No. 81713

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 19 When handed in at Local Office 27 AUG 1927 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle. Date, First Survey 25 Nov. 26 Last Survey 4 Aug 1927
Reg. Book. (Number of Visits 42)

31566 on the M.V. Patella

Tons { Gross
Net

Built at Newcastle. By whom built Palmers & Co. Yard No. 986 When built 1927.

Owners Anglo Saxon Petroleum Co. Ltd Port belonging to London

Electric Light Installation fitted by Palmers & Co. (Lighting)
J. Holmes & Co. (Power). Contract No. 986. 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 overload 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 and clearly marked Yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited 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 Yes

are their axis 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 Starboard side of 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, incombustible 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 connected to one pole insulated from the slab with mica or micanite and the slab similarly insulated from its framework Yes, and is the frame effectively earthed Yes

Are the following fittings as per Rule, viz.: — 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 150 Amp D.P.C.B

for each generator interlocked with equalised switch fitted with overload, reverse trip time lag. 50 Amp D.P.S. fuses 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 coupled to earth through switches fuses

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

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

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 Power system

J. J. Holmes

Electrical Engineers.

Date

Aug 23. 1927

For Lighting system

W. J. H. H. H.

*Palmer S & J Co
24/8/27*

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 *.25* Amperes *on the* feet from standard compass *10* feet from steering compass.

A cable carrying *.25* Amperes *7* feet from standard compass *on the* feet 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.

PALMERS SHIPBUILDING & IRON CO.

D. R. Macdonald

Builder's Signature.

Date

Is this installation a duplicate of a previous case *yes*. If so, state name of vessel *M. V. Pecten*

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, wireless

*It is submitted that
this vessel is eligible for
THE RECORD. Elec Light*

W. T. Badger

Total Capacity of Generators *124* Kilowatts

The amount of Fee ... £ *32. 14* : *24. 19. 27*

Travelling Expenses (if any) £ : : *30. 8. 27*

Committee's Minute

Assigned

Elec Light

W. T. Badger

Surveyor to Lloyd's Register of Shipping.



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