

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 8 OCT 1930

Date of writing Report 16.9.30 When handed in at Local Office 6/10/1930 Port of Newcastle-on-Tyne

No. in Survey held at NEWCASTLE Date, First Survey 8 Aug. Last Survey 15 Sept 1930
Reg. Book. 81065 on the M.V. PEIK. (Number of Visits 5)Built at NEWCASTLE By whom built ARMSTRONG WHITWORTH Yard No. 1057 When built 1930
Owners JENS. T. SALVASENS REDERI. Port belonging to

Electric Light Installation fitted by SIR. W.G. ARMSTRONG WHITWORTH Contract No. 1057 When fitted 1930

System of Distribution

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

Direct or Alternating Current, Lighting D.C. Power D.C.

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

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

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 are the prime movers and

Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes

their respective generators in metallic contact Yes

Main Switch Boards, where placed

Port 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

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

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 D.P. Circuit Breaker

with overload & reverse current attachments & S.P. Equalizer Switches for each main generator & D.P. Switches & D.P. Fuses for Aux. Generator & each outgoing circuit.

Instruments on main switchboard Three ammeters Three 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 Leakage detector

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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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

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, radiators or other hot objects, or to avoidable risk of mechanical damage *Yes*

Assured in Machinery Spaces. Lead covered ~~arms~~ along gangways, supported by clips.

separate grooves. — If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VII? *Yes*

Joints in Cables, state if any, and how made, insulated, and protected *none made*

Yes

bushed *yes* state the material of which the bushes are made *Lead*

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *Yes*

Navigation Lamps, are these separately wired Yes, controlled by separate switch and separate fuses Yes, are the fuses double pole Yes

has each navigation lamp an automatic indicator 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

1894

in Pump Room

where are the controlling switches situated in Bridge Space

Arc Lamps, other than searchlight lamps, No. of _____, are their live parts insulated from the frame or case _____, are their fittings as per Rule _____

are the brushes, brush holders, terminals and lubricating arrangements as per Rule Yes, are the motors placed in well-ventilated compartments in which

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

....., if not of this type, state distance of the combustible material horizontally or vertically above the motors and

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule yes

section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings..... 94

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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.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

190 ft.
780 ft.

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying .13 Amperes in the ~~foot from~~ standard compass 8 feet from steering compass.

A cable carrying .13 Amperes 8 feet from standard compass in the ~~foot 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.

SIR W. & A. ARMSTRONGS, WHITWORTH & CO. (SHIPBUILDERS), LTD.

MANAGING DIRECTOR,

Builder's Signature.

Date

1/10/30

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 & 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

1/10/30

Total Capacity of Generators

Kilowatts.

470

The amount of Fee

£ 29.10.0

When applied for, 26.9.30

Travelling Expenses (if any) £

When received, 4.10.30

Committee's Minute

Assigned

Elec Lt

J. S. Rankin
Surveyor to Lloyd's Register of Shipping.



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