

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

16 JUN 1925

Date of writing Report 10 When handed in at Local Office 15 June 1925 Port of WEST HARTLEPOOL
 No. in Survey held at WEST HARTLEPOOL Date, First Survey 23 April Last Survey 8 June 1925
 Reg. Book. 7574 on the s/s "Lima" (Number of Visits.....)
 Built at Hartlepool By whom built Furness Withy & Co Yard No. When built 1907
 Owners Pensance Ste Port belonging to Lisbon
 Electric Light Installation fitted by Contract No. When fitted

System of Distribution single wire with earth return ✓Pressure of supply for Lighting 110 ✓ volts, Heating volts, Power 110 volts.Direct or Alternating Current, Lighting direct current ✓ Power direct current ✓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 no automatic governorGenerators, do they comply with the requirements regarding overload yes, are they compound wound yesare 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 no, is an adjustable regulating resistance fitted in series with each shunt field yesAre 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 yesPosition of Generators in the engine room, at starboard sideis the ventilation in way of the generators satisfactory yes, are they clear of all inflammable material yesif situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators far and , are the generators protected from mechanical injury and damage from water, steam or oil yesare their axis of rotation fore and aft yesEarthing, are the bedplates and frames of the generating plant efficiently earthed yes are the prime movers and their respective generators in metallic contact yesMain Switch Boards, where placed in the engine room, near the generatorsIf 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 yesSwitchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yesare 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 far 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 yesif 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 yesAre the following fittings as per Rule, viz.:— spacing or shielding of live parts yesaccessibility of all parts yes, absence of fuses on back of board yes, proportion of omnibus bars yesindividual fuses to voltmeter, pilot or earth lamp yes, connections of switches yesMain Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Single pole switch & single pole fuse for each generator, and for each outgoing circuit.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 no earth testingSwitches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yesSection and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes

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Foundation

008434-008438-0153 1/2

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

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.

CANTIERE NAVALE TRIESTINO
OFFICINE ELETTROMECCANICHE

Electrical Engineers.

Date 20. V. 1925

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying Ampères 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.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

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.

Builder's Signature.

Date

Is this installation a duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. The "auxiliary" generator is the

one fitted when the ship was new and is of 100 amps. The "main" generator has been added since, and is by Lawrence Scott & Co. There is no statement of capacity attached, but the electrician here states it is 400 amps. The total output of this generator at work is stated to never exceed 250 amps.

The motors referred to in the report are ventilating fans in trunks in the engine room casing.

The system is double wire within about 30ft of the Compasses. The installation has been overhauled throughout by local electricians, and put in order, minor repairs and alterations effected. It has been tried at work and found satisfactory.

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

Total Capacity of Generators 61 Kilowatts

The amount of Fee ...

See Inclusive fee

Travelling Expenses (if any) £

on machinery

T.C.D. Shilston
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 30 JUN 1925

Assigned