

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 5-8-1935 When handed in at Local Office 24. 8. 1935 Received at London Office 28 AUG 1935

No. in Survey held at Glasgow. Date, First Survey 20. 6. 35 Last Survey 7-8-35 19  
Reg. Book. (Number of Visits... 6 (six))

37009 on the S.S. "ARGENTINE TRANSPORT." Tons {Gross 4684  
Net 2825

Built at Glasgow. By whom built Blythenwood Shipbuilding Co. Ltd. Yard No. 35 When built 1935

Owners Port belonging to Electric Light Installation fitted by Group Electric Co. Ltd. Contract No. 35 When fitted 1935

Is the Vessel fitted for carrying Petroleum in bulk No.

System of Distribution Two wire

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

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 temperature rise 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.

Have certificates of test results for machines under 100 kw. been submitted and approved Yes. Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing -

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 Engine Room, bottom platform starboard side, 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 Engine Room near to generator.

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

is it of an approved type. Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or mica-nite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework. Sindanyo, is the non-hygroscopic insulating material of an approved type. 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, temperature rise of omnibus bars. Yes, individual fuses to voltmeter, pilot or earth lamp. Yes, are moving parts of switches alive in the "off" position. No, are all screws and nuts securing connections effectively locked. Yes, are any fuses fitted on the live side of switches. No.

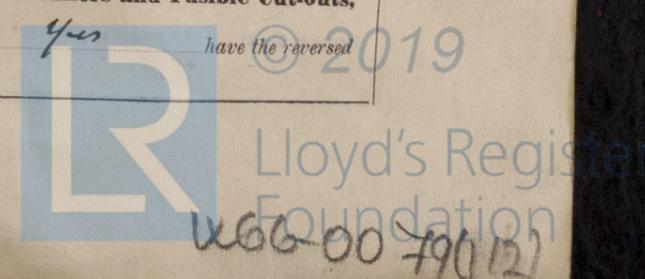
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Double pole switch & fuses for generators. Single pole switch & double pole fuses for each outgoing circuit.

Are turbine driven generators fitted with emergency trip switch as per rule - Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material. None Instruments on main switchboard 1 ammeters 1

voltmeters - synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection

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

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules. Yes, are the fusible cutouts of an approved type. Yes, have the reversed



466 00 79(12)



All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

FOR TROUP, CURTIS & Co. LTD.

*[Signature]*

Electrical Engineers.

Date 12/8/35.

COMPASSES.

Distance between electric generators or motors and standard compass 200 ft.

Distance between electric generators or motors and steering compass 190 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 36 Ampères 4 1/2 ft. feet from standard compass 4 1/2 ft. feet from steering compass.

A cable carrying 15 Ampères 15 feet from standard compass 10 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 1/2 degree on any course in the case of the standard compass, and 1/2 degrees on any course in the case of the steering compass.

BLYTHSWOOD SHIPBUILDING CO. LTD.

*[Signature]*

Secretary

Builder's Signature.

Date 19/8/35

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 and found satisfactory. The materials and workmanship were found to be good and sound.

Noted  
29/8/35

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 10 : 0 : 0

Travelling Expenses (if any) £ — : — : —

When applied for, 19.8.35

When received, 21.8.35

*[Signature]*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 27 AUG 1935

Assigned SEE ACCOMPANYING MACHINERY REPORT.

2m.534.—Transfer. The Surveyors are requested not to write on or below the space for Committee's Minute.

