

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 13. 12. 1948. When handed in at Local Office 20. 12. 1948. Port of Middlesbrough.

No. in Survey held at Southbank-on-Tees. Date, First Survey 7. 10. 48. Last Survey 3. 12. 1948.
Reg. Book. (Number of Visits.....7.....)

59101 on the S.S. "FITZROY" Tons {Gross 853
Net 392

Built at Leith. By whom built H. Robb Ltd. Yard No. - When built 1931

Owners Falkland Islands Co. Ltd. Port belonging to London.

Electrical Installation fitted by Smiths Docks Co. Ltd. Middlesbrough Contract No. - When fitted 1948.

Is vessel fitted for carrying Petroleum in bulk no. Is vessel equipped with D.F. - E.S.D. Yes. Gy.C. - Sub.Sig. - Radar - No. -

Have plans been submitted and approved - System of Distribution Two wire insulated. Voltage of supply for Lighting 110

Heating - Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity - Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off Yes Are turbine emergency governors fitted with a

trip switch as per Rule - Generators, are they compound wound Yes., are they level compounded under working conditions Yes.,

if not compound wound state distance between generators - and from switchboard - Where more than one generator is fitted are they

arranged to run in parallel no., are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole

Negative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates of

test for machines under 100 kw. been supplied Yes* and the results found as per rule Yes. Are the lubricating arrangements and the construction

of the generators as per rule Yes Position of Generators Fore and Aft, starboard side on starting platform

level., is the ventilation in way of generators satisfactory Yes. are they clear of inflammable material Yes., if situated

near unprotected combustible material state distance from same horizontally - and vertically -, are the generators protected from mechanical

injury and damage from water, steam and oil Yes, are the bedplates and frames earthed Yes. and the prime movers and generators in metallic

contact Yes Switchboards, where are main switchboards placed adjacent to shell, starboard side facing port

side and near to aft generator on starting platform level.

are they in accessible positions, free from inflammable gases and acid fumes Yes., are they protected from mechanical injury and damage from water, steam

and oil Yes., if situated near unprotected combustible material state distance from same horizontally - and vertically -, what insulation

material is used for the panels Sindanyo Ebony finish, if of synthetic insulating material is it an Approved Type Yes., if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the frame effectually earthed Yes.

Is the construction as per Rule Yes., including accessibility of parts Yes., absence of fuses on the back of the board Yes., individual fuses

to pilot and earth lamps, voltmeters, etc., Yes. locking of screws and nuts Yes., labelling of apparatus and fuses Yes., fuses on the "dead"

side of switches Yes. Description of Main Switchgear for each generator and arrangement of equaliser switches Double Pole

Change over switch for generators and double pole fuses for each generator.

and for each outgoing circuit Single pole switch and double pole fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes. Instruments on main switchboard 2

ammeters 1 voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection - Earth Testing, state means provided Earth lamps coupled to 'E' thro switches and fuses.

Switches, Circuit Breakers and Fuses, are they as per Rule Yes., are the fuses an approved type Yes, are all fuses labelled as

per Rule Yes. If circuit breakers are provided for the generators, at what overload current did they open when tested -, are the reversed current

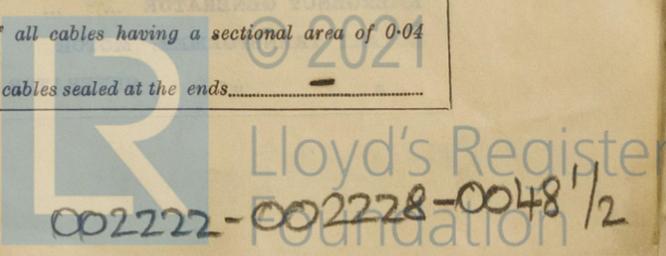
protection devices connected on the pole opposite to the equaliser connection -, have they been tested under working conditions, and at what current

did they operate - Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule Yes.

Cables, are they insulated and protected as per the appropriate Tables of the Rules Yes, if otherwise than as per Rule are they of an approved type -,

state maximum fall of pressure between bus bars and any point under maximum load < 6.622, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets Yes. Are paper insulated and varnished cambric insulated cables sealed at the ends -



The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description.

Electrical Engineers. Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum 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.

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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

Plans. Are approved plans forwarded herewith If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith Yes - 10KW Generator.

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.) The electrical

equipment of this vessel has been installed under special survey and the arrangements are in accordance with the Rules for Electrical Equipment.

On account of increasing the length of the vessel it was necessary to revise approx 80% of the vessel and at the same time the 5KW Diesel Generator was replaced by a new 10KW Steam Generator, test certificates of which are attached to this report.

The materials are of good quality and the workmanship is good.

This installation as now seen is in my opinion in good order and safe working condition.

Special Notation:- E.S.D.

Total Capacity of Generators 16 Kilowatts.

The amount of Fee £ 5 : 0 : When applied for, 29.12.19.48. Excessive Repairs £ 10 : 10 : Travelling Expenses (if any) £ : : When received. 19.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See Rpt 9

