

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

24 NOV 1949

Date of writing Report 16-11-49. When handed in at Local Office 17-11-49. Port of Antwerp. Received at London Office.

No. in Survey held at Antwerp. Date, First Survey 1949. Reg. Book. 10688. on the S.S. GEORGY SEDOV. Tons {Gross 1538, Net 578.

Built at Glasgow. By whom built Dr W. Henderson & Co. Yard No. When built. Owners U.S.S.R. Port belonging to Archangel.

Electrical Installation fitted by L'Electro Navale & Industrielle S.A. Contract No. When fitted 1949.

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

Have plans been submitted and approved Yes. System of Distribution Double Pole. Voltage of supply for Lighting 220.

Heating Power 220. Direct or Alternating Current, Lighting A.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 Diesel driven in Steam compartment. Both Steam driven in separate compartment above Thrust Necess. - Emergency. 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 In Compartment is above for Steam generators.

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 No panels used (Lead front type). synthetic insulating material is it an Approved Type Reason. 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. 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. OP. with fuses.

and for each outgoing circuit. OP. with fuses.

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

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. 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 Yes.



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 4.2 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .18 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .18 Ampères 10 feet from standard compass 10 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.

Builder's Signature. Date

Is this installation a duplicate of a previous case No If so, state name of vessel

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

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith

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

Please see Rpt 9. for Recommendations

Notes
left
19-12-49

Total Capacity of Generators 50 Kilowatts.

The amount of Fee £ : : When applied for,19.....
Travelling Expenses (if any) £ : : When received,19.....

J.B. Martin
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 30 DEC 1949

Assigned See minute on form 9

5m.4.30.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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