

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of Rotterdam

No. in Survey held at Flushing Date, First Survey 25th April Last Survey 23rd June 1947
 Reg. Book. (Number of Visits.....3.....)

77121 on the "Komsomolsk" Tons {Gross 2900
 Net 1640

Built at Haverston Hill-on-Tees By whom built Furness Shipbuilding Company Yard No. When built 1936

Owners U.S.S.R. Port belonging to Archangel

Electrical Installation fitted by Furness Shipbuilding Comp. Contract No. When fitted 1936

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

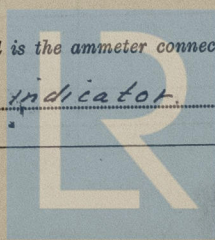
Have plans been submitted and approved yes System of Distribution two-wire-system Voltage of supply for Lighting 110 V

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

has the governing been tested and found efficient when the whole 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 yes, 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 - and the results found as per rule - Are the lubricating arrangements and the construction of the generators as per rule yes Position of Generators in engine room near after bulkhead on star-board side, 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 engine room near after bulkhead on star-board side, 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 Sindonyo, 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 three-pole circuit breakers fitted with overload and reverse-current trips
the third pole used for equalizer {overload trips operated at 150% of full load
 reverse current trips operated at 10% of full load}

and for each outgoing circuit double pole knife switches and double pole fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 5 ammeters 2 voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection yes Earth Testing, state means provided earth leakage indicator



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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 60 feet

Minimum distance between electric generators or motors and steering compass 63 feet

The nearest cables to the compasses are as follows:—

A cable carrying 0.14 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 4 Ampères 10 feet from standard compass 6 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 yes

The maximum deviation due to electric currents was found to be nil degrees on any course in the case of the standard compass, and nil degrees on any 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 —

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

Classing:

The electrical equipment of this vessel has been examined and found as far as could be ascertained in a satisfactory condition.

The quality of workmanship was found good.

The equipment has been tried under full working condition and was megger tested with satisfactory results.

I am of opinion that this installation merits the approval of the Committee

Note Suit 2/9/47

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... £ 120.- : When applied for,19.....
Travelling Expenses (if any) £ 43.- : When received,19.....

Surveyor to Lloyd's Register of Shipping.

FRI, 26 SEP 1947

Committee's Minute

Assigned Ser F.E. moly. rpt.



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