

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

3-JUL 1956

Date of writing Report 2/7 1956 When handed in at Local Office 19 Port of Stockholm

No. in Survey held at Gävle Date, First Survey 19-1 Last Survey 23.5 19 56

Reg. Book. (No. of Visits 5)

35538 on the Steel Single Screw Trawler "TAGIL" Tons { Gross 688  
Net 225

Built at Gävle By whom built A/B Gävle Varv Yard No. 91 When built 1956

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

Installation fitted by A/B Electro-Armatur, Gävle When fitted 1956

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

Plans, have they been submitted and approved. Yes System of Distribution Two wire Voltage of Lighting 110

Heating - Power 110 D.C. or A.C., Lighting DC Power DC If A.C. state frequency -

Prime Movers, has the governing been found as per Rule when full load is thrown on and off. Yes Are turbine emergency governors fitted with a trip switch - Generators, are they compound wound. Yes, and level compounded under working conditions. Yes

Are the generators arranged to run in parallel. Yes Is the compound winding connected to the negative or positive pole. Negative

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing. fitted Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule. Yes Position of Generators -

On platform in engine room, starboard side.

is the ventilation in way of generators satisfactory. Yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil. Yes is Switchboards, where are main switchboards placed. -

On platform in engine room, starboard side.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil. Yes, what insulation is used for the panels. Bakelite, steatite & mica (steel front), if of synthetic insulating material is it an Approved Type. -, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule. - Is the construction as per Rule, including locking of screws and nuts. Yes Description of Main Switchgear for each generator and arrangement of equaliser switches. The pole circuit breaker with overload and reverse current protection. Third pole for equaliser connection.

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and the switch and fuse gear (or circuit breakers) for each outgoing circuit. Double pole knife switch and double pole fuse.

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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 are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection. Yes Earth Testing, state means provided. Voltmeter calibrated as ohmmeter Preference Tripping, state if provided. No, and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule. Yes, are the fuses an Approved Type. Yes

make of fuses. ASEA. IPÖ (Diazed)., are all fuses labelled. Yes If circuit breakers are provided for the generators, at what overload do they operate. 200 amps, and at what current do the reverse current protective devices operate. 25 amps Cables, are they insulated and protected as per Rule. 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. 4 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends. -

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage. Yes, are any cables laid under machines or floorplates. No, if so, are they adequately protected. - State type of cables (if in conduit this should also be stated) in machinery spaces. Lead alloy sheathed, and armoured, galleys -

and laundries. - State how the cables are supported or protected. In machinery spaces, on deck and in holds: Lead alloy sheathed and armoured cables clipped to bulkheads or steel plates.

In accommodations: Lead alloy sheathed cables clipped to bulkheads or run in conduit.

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Are all lead sheaths, armouring and conduits effectually bonded and earthed. Yes Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands. Yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed. Yes Refrigerated chambers, are the cables and fittings as per Rule. -

Have refrigeration fan motors been constructed under survey. - and test certificates supplied. -

Are the motors accessible for maintenance at all times. -



Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. 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.

A-B. ELEKTRO-ARMATUR

*Ang. H. H. H. H. H.*

Electrical Contractors.

Date

#### COMPASSES.

Have the compasses been adjusted under working conditions. Yes

*Al. Belagat G. V. V.*

*Al. Belagat G. V. V.*

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct. Yes

Is this installation a duplicate of a previous case. Yes If so, state name of vessel "CHIRCHIK", "PELENG", "KURS", "VOLGA", "VOLNA", "TRAVERZ".

Plans. Are approved plans forwarded herewith. No If not, state date of approval 29.7.54, 4.10.54, 18.10.54, 24.11.1955.

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The electrical equipment of this vessel has been fitted in accordance with the approved plans and the Rule requirements.

The workmanship and materials are good.

Total Capacity of Generators 36 Kilowatts.

The amount of Fee ... £r. 590:-- : When applied for, 2/8 1956

Travelling Expenses (if any) £ : : When received, 19

*J. E. E. E. E.*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute MONDAY 14 AUG 1956

Assigned

*See Skm 10608*