

28 JAN 1960

Rpt. 13

No. 12386

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 26-1-1960 When handed in at Local Office 19 Port of Stockholm

No. in Survey held at Gävle Date, First Survey 21.9.1959 Last Survey 28.11.1959
Reg. Book (No. of Visits 2)

40860 on the Twin Screw Motorship "ARBAN" Tons Gross 1500 Net -

Built at Gävle By whom built A/B Gävle Varv Yard No. 102 When built 1959

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

Installation fitted by A/B Elektroarmatur, Gävle When fitted 1959

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

Plans, have they been submitted and approved Yes System of Distribution 3-phase Voltage of Lighting 220

Heating 220 Power 380 D.C. or A.C. Lighting AC Power AC If A.C. state frequency 50

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 and level compounded under working conditions

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

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing Yes Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Main engine room: One on port

and one on starboard side aft: Aux. engine room: Port, centre and starboard.

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 Switchboards, where are main switchboards placed Main engine room: On a platform

port side aft. Aux. engine room: On a platform at forward end.

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 Dead front construction, 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 Triple pole linked circuit breaker with overcurrent release (in 2 phases), Reverse power release (in one phase) and No Volt release (between 2 phases).

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Triple pole linked circuit breaker with overcurrent trip in each phase.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard Aux. ER 6

ammeters M.E.R.3 M.E.R.2 + 1 frequency meter on each switchboard

protection devices connected on the pole opposite to the equaliser connection Earth Testing, state means provided Earth

indicating lamps Preference Tripping, state if provided None fitted, and tested

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

make of fuses ASEA, are all fuses labelled Yes If circuit breakers are provided for the generators, at what power

overload do they operate 110 % of the amperage and 10 seconds, and at what current do the reverse current protective

devices operate 15 % 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 Less than 6 volts Are all paper insulated and varnished cambric insulated cables sealed at the ends None fitted

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 Yes, if so, are they adequately protected Yes State

type of cables (if in conduit this should also be stated) in machinery spaces VIRIC + A, galleys VIRIC + A

and laundries VIRIC + A State how the cables are supported or protected

Machinery spaces: VIRICA clipped to structure or cable trays.

Accommodations: VIRIC clipped to structure or run in conduit.

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 Yes - domestic only.

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

Are the motors accessible for maintenance at all times

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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.

AB Elektro-Armatur

Electrical Contractors.

Date 16/1 1960

H. Sundström Bengt Hultstegren

COMPASSES

Have the compasses been adjusted under working conditions. Yes

Aktiebolaget Gävle Värk

Builder's Signature.

Date 18.1.60

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. "PAMIR", "ALDAN" & "AGATAN"

Plans. Are approved plans forwarded herewith. No If not, state date of approval. 2.5.58.

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 installation of this vessel has been installed in accordance with the Rules and approved plans, and tested under working condition to my satisfaction.

The workmanship and materials used are good.

Total Capacity of Generators 800 KVA Kilowatts. (P.F.=0.8).

The amount of Fee ...

When applied for,

16-12 1959

When received,

19

Travelling Expenses (if any) £

Surveyor to Lloyd's Register of Shipping

FRIDAY 11 MAR 1960

Committee's Minute

Assigned

See App. 1.



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