

Rpt. 13.

No. 19535.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 13th Jan. 19 52. When handed in at Local Office 20th Jan. 19 53. Port of Gothenburg
Received at London Office 22 JAN 1953
No. in Survey held at Uddevalla Date, First Survey 30th Oct. 52. Last Survey 2nd Jan. 19 53.
Reg. Book. (No. of Visits 12.)
90984 on the Motor Tanker "A S L A U G T O R M" Tons { Gross 10270
Net 5946
Built at Uddevalla By whom built Uddevallavarvet Aktiebolag Yard No. 126 When built 1952
Owners D/S Torm A/S Port belonging to Copenhagen
Installation fitted by Uddevallavarvet Aktiebolag When fitted 1952
Is vessel equipped for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. -- Radar Yes
Plans, have they been submitted and approved Gothenburg 17.11.52. System of Distribution 2 wire Voltage of Lighting 110
Heating 220 Power 220 D.C. or A.C., Lighting D.C. Power D.C. 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 Yes Have certificates of test for machines
under 100 kw. been supplied and the results found as per Rule Yes Position of Generators No.1: Starboard side E.R. floor;
No.2: Port side fwd; No.3: Port side aft; Steam generator: Port side aft.
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 On a platform, Port side in the
engine room
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, switchgears fitted on Sindanyo, 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 construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear
for each generator and arrangement of equaliser switches A double pole linked circuit breaker with overload and reversed
current trips and a single pole equaliser switch,
and the switch and fuse gear (or circuit breakers) for each outgoing circuit A double pole switch and a fuse on each pole.
Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 12
ammeters 8 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 Ohm-metres
Preference Tripping, state if provided Yes, and tested Yes
Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes
make of fuses A.S.E.A., are all fuses labelled Yes If circuit breakers are provided for the generators, at what
overload do they operate 20 % and at what current do the reverse current protective
devices operate 50 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 Yes
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 covered & armoured, galleys Lead covered and armoured
and laundries Lead covered & steel wire braided Supported by metal clips. When drawn
behind panels etc.: drawn in conduits. In pumproom and tweendeck space: drawn in gastight piping.
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 for provision only Refrigerated chambers, are the cables and fittings as per Rule Yes
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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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule.....**Yes**..... Emergency Supply, state position

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches and fuses Yes Are the switches and fuses in a position accessible only to the officers on watch Yes, is an automatic indicator fitted Yes Is an alternative supply provided Yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule _____, state battery capacity in
ampère hours _____. Where required to do so does it comply with 1948 International Convention _____.

Lighting, is fluorescent lighting fitted.....**No**..... If so, state nominal lamp voltage.....**---**..... and compartments where lamps are fitted.....**---**.....

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes

Searchlights, No. of 1, whether fixed or portable Fixed, are they of the carbon arc or of the filament type Carbon arc.

Heating and Cooking, is the general construction as per Rule **Yes**, are the frames effectually earthed **Yes**, are heaters in the accommodation of the convection type **Yes**. Motors, are all motors constructed and installed as per Rule and placed in well-ventilated

| | |
|--|-----|
| compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil..... | Yes |
|--|-----|

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment..... **Yes**..... Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... **---**

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule..... Yes

Lightning Conductors, where required are they fitted as per Rule.....

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with Yes, are all fuses of an Approved Cartridge Type Yes, make of fuse A.S.E.A. Are the fittings for pump

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships..... **Yes** Are all cables lead covered as per Rule..... **Yes**

E.S.D., if fitted state maker **Bendix Aviation Corp.** location of transmitter and receiver **In cofferdam fwd end E.R.**

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations..... Yes

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

PARTICULARS OF GENERATING PLANT.

| GENERATOR CABLES. | | | | | | | | | |
|----------------------------------|--------|-------|---------------------------|---|-----------------------------|-------|--|-------------|----------------------|
| DESCRIPTION. | No. of | Kw. | CONDUCTORS. | | MAXIMUM CURRENT IN AMPERES. | | APPROX. LENGTH (lead plus return ft.). | INSULATION. | PROTECTIVE COVERING. |
| | | | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands. <small>20-100-100 sq. mm.</small> | In the Circuit. | Rule. | | | |
| MAIN GENERATOR | 3 | 130 | 2 | 120 | 565✓ | 584 | 30 | Paper | Lead cov.&armoured |
| " " EQUALISER | | | 2 | 120 | | 584 | 15 | " | "- |
| Steam " | 1 | 110 | 2 | 120 | 479✓ | 584 | 14 | " | "- |
| Equaliser | | | 2 | 120 | | 584 | 7 | " | "- |
| | | | | | | | | | |
| | | | | | | | | | |
| EMERGENCY GENERATOR | | | | | | | | | |
| ROTARY TRANSFORMER: MOTOR | 2 | 47 HP | 2 | 70 | 180✓ | 250 | 8 | Rubber | "- |
| " " GENERATOR... .. | 2 | 30 | 1 | 120 | 260✓ | 292 | 9 | Paper | "- |

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

| MOTOR CABLES. | | | | | | | | | |
|---|-----|--------|---|-----|-------|------|----|--------|--------------------------|
| ALL IMPORTANT MOTORS TO BE ENUMERATED. | No. | B.H.P. | | | | | | | |
| Steering engine | 2 | 15 | 1 | 16 | 62 ✓ | 84 | 72 | Paper | Lead covered & armoured. |
| Main cooling water pumps | 3 | 45 | 1 | 70 | 171 ✓ | 212 | 50 | " | "- |
| Main lubr. oil pumps | 2 | 65 | 1 | 120 | 239 ✓ | 292 | 54 | " | "- |
| Manceuvring compressor | 1 | 72 | 1 | 120 | 268 ✓ | 292 | 28 | " | "- |
| "- | 1 | 37 | 1 | 50 | 146 ✓ | 169 | 24 | " | "- |
| Fire exting. pump | 1 | 50 | 1 | 170 | 185 ✓ | 212 | 10 | " | "- |
| Sanitary pump | 1 | 6.5 | 1 | 10 | 27 ✓ | 38 | 14 | Rubber | "- |
| Fuel oil pump | 1 | 16 | 1 | 16 | 62 ✓ | 84 | 50 | Paper | "- |
| Cooling water pump, aux.engine | 1 | 10 | 1 | 16 | 40 ✓ | 49 | 22 | Rubber | "- |
| Refr. compressors | 2 | 8.5 | 1 | 10 | 34 ✓ | 38 | 6 | " | "- |
| Brine pump | 2 | 2.5 | 1 | 4 | 11 ✓ | 22.5 | 5 | " | "- |
| Exhaust boiler circ. pump | 1 | 2 | 1 | 2.5 | 9.1 | 15.5 | 22 | " | "- |
| Purifier | 3 | 3.75 | 1 | 4 | 16 ✓ | 22.5 | 8 | " | "- |
| Turning gear | 1 | 15 | 1 | 16 | 60 ✓ | 84 | 40 | Paper | "- |

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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.

Holmberg

Electrical Contractors.

Date *15. Jan. 1953*

COMPASSES.

Have the compasses been adjusted under working conditions... **Yes**

by [Signature]

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... **No** If so, state name of vessel... ---

Plans. Are approved plans forwarded herewith... **No** If not, state date of approval... **Gothenburg, 17.11.1952.**

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.)

This electrical installation has been fitted in the vessel under my inspection and has been tested and found satisfactory.

The workmanship is good and the Rule requirements have been complied with.

Lloyd's and Makers certificates in respect of generators and motors are attached.

Total Capacity of Generators... **500** Kilowatts.

The amount of Fee ... **Kr. 2123:00** : { When applied for, **20th Jan. 1953.**

Travelling Expenses (if any) **Kr. 30:00** : { When received, ---

Anders Sjögren
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 24 FEB 1953

Assigned

See F.E. mch. rpt.



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