

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

10 OCT. 1949

Received at London Office

Date of writing Report 16th Sept 1949 When handed in at Local Office 6th Oct. 1949 Port of Oslo

No. in Survey held at Fredrikstad Date, First Survey 27 July Last Survey 29 August 1949 (No. of Visits 6)

Reg. Book. 40024 on the steel single screw steamer 'SOLVIKEN' Tons { Gross 3113 Net 1709

Built at Fredrikstad By whom built A/S Fredrikstad Mek. Versted Yard No. 326 When built 1949

Owners Wallem & A/S Port belonging to Bergen

Installation fitted by A/S Fredrikstad Mek. Versted When fitted 1949

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

Plans, have they been submitted and approved Yes System of Distribution 2-wire Voltage of Lighting 220

Heating Power 220 D.C. or A.C., Lighting DC Power 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 Yes Generators, are they compound wound Yes, and level compounded under working conditions Yes

if not compound wound state distance between generators and from switchboard Are the generators 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 and the results found as per Rule

Position of Generators in engine room SB 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 Switchboards, where are main switchboards placed in engine room SB side on fwd bulkhead

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 Elony Sindanga 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 construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole switches

and the switch and fuse gear (or circuit breakers) for each outgoing circuit all outgoing circuits are fitted with change-over switches and double-pole fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2 ammeters 3 voltmeters synchronising devices For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection Earth Testing, state means provided by ohmmeter

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes, make of fuses porcelain, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate, and at what current do the reversed current protective devices operate

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule Yes

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 at 2.5 v, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets Yes 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 Yes, if so, are they adequately protected Yes Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit or of the "HR" type State how the cables are supported or protected in trays held in steel casings, in accommodation in galv. steel 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 Refrigerated chambers, are the cables and fittings as per Rule 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/s. Fredriksstad mek. Verksted

Electrical Contractors.

Date

28/9. 49

[Signature]
 iflg. spesialfullmakt

COMPASSES.

Have the compasses been adjusted under working conditions.

yes

A/s Fredriksstad mek. Verksted

Builder's Signature.

Date

28/9 49

[Signature]
 iflg. spesialfullmakt

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

yes

Is this installation a duplicate of a previous case.

✓

If so, state name of vessel.

✓

Plans. Are approved plans forwarded herewith.

✓

If not, state date of approval.

7/7/49

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

will be forwarded later

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

The electrical installation on this vessel has been examined during the fitting of the generators, cable and switchboards, as well as during the preparation of the work in the shop. The materials employed appear to be good, workmanship is good. The installation has been carried out in accordance with the approved plans and the Secretary's letters concerning same. The installation was tested as required by the Rules and found to be satisfactory and efficient.

The test sheets for the generators have not yet been received, but these will be forwarded as soon as received here.

It is recommended that this installation be classed in the Register Book.

Noted *[Signature]* 11/11/49

Total Capacity of Generators 38 Kilowatts.

The amount of Fee ... Kr. £ 840.-94 :
 When applied for, 17/9/19 49.
 Travelling Expenses (if any) £ : :
 When received, 26/9/19 49

[Signature]
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 18 NOV 1940

Assigned

See F.B. memb. rpt.

2m. 3. 46. - 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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