

Rpt. 13.

No. 6374

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 40024 on the steel single screw steamer "SOLVIKEN" Date, First Survey 27th July Last Survey 29th August 1949 (No. of Visits 6)

Reg. Book. Built at Fredrikstad By whom built A/S Fredrikstad Mek. Verktøjs Yard No. 326 Tons { Gross 3113 Net 1709 When built 1949

Owners Wallem & A/S Port belonging to Bergen

Installation fitted by A/S Fredrikstad Mek. Verktøjs 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 Yes and from switchboard Yes 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 Yes Have certificates of

test for machines under 100 kw. been supplied Yes and the results found as per Rule Yes

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

in 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 Elongy 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 Yes 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 Yes 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 Yes, and at what current do the reversed current protective devices operate Yes

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 Yes

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 Yes

or of the "HR" type Yes State how the cables are supported or protected in ways holds in steel casing, 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

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

Section	Boat Deck	1	2.4	7 ^{*)}	15	180	Paper	Lead, main
"	Lower Bridge	1	2.6	13 ^{*)}	16	170	"	"
"	Y-halter Deck	1	2.10 [✓]	41 ^{*)}	13	100	"	"
"	Refrigerated prov. room	1	2.10	22	13	100	"	"
"	Ordn. forward	1	2.4	6.5 ^{*)}	15	420	"	"
"	" aft.	1	2.10 [✓]	22 ^{*)}	13	400	"	"

*) including plug connections.

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

iflg. spesialfullmakt

COMPASSES.

Have the compasses been adjusted under working conditions. yes

A/s Fredriksstad mek. Verksted

Builder's Signature.

Date 28/9. 49

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 closed in the Register Book.

Noted list 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.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

Assigned. See F.P. mely. rpt.

FRI. 18 NOV 1940



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