

Rpt. 13.

No. 3804

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 29th Aug., 1958 When handed in at Local Office 29th Aug. 1958. Port of M.A.L.M.Ö

No. in Survey held at SÖLVESBORG Date, First Survey 22nd April Last Survey 20th Aug, 1958.
No. of Visits 1590857 on the M/S "OCTAVIA" Tons { Gross 499
Net 242

Built at Sölvesborg By whom built Sölvesborgs Varvs- & Red. AB Yard No. 51 When built 1958

Owners Rederi AB Svenska Lloyd Port belonging to Gothenburg

Installation fitted by Sölvesborgs Varvs- & Rederi AB When fitted 1958

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

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

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 - Except belt driven by M.E.

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 pole

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing None Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Main:- 1-Port side,

1-Stbd. side fwd, 1-Stbd. 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 Port side in E.R.

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 switchboard, 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 3-pole C.B. with O/C trip in two poles R/C and U/V trips and

O/C perf. relay. Third pole used for equalizer.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P. knife and D.P. fuse.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 5

ammeters 5 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 meters.

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 & A.E.G., are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 10% set at 50%, and at what current do the reverse current protective-

devices operate 10% R/C Cables, are they insulated and protected as per Rule Yes

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 <6% 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 L.C., galleys L.C.

and laundries State how the cables are supported or protected L.C. and armoured cables clipped to

surface plate or tray in engine space, tween decks and decks and covered with steel channel plates at

hatchway openings in tween deck. L.C. cables clipped to surface or wood grounds in accommodations.

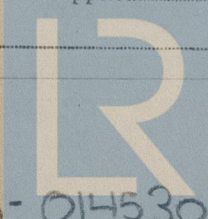
Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight

heads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes

actively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule Yes

Are refrigeration fan motors been constructed under survey None and test certificates supplied -

Are the motors accessible for maintenance at all times -



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Lloyd's Register

014513-014530-604112 Foundation

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 None....., whether fixed or portable....., are they of the carbon arc or of the filament type.....

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..... None.....

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? —, are all fuses of an Approved Cartridge Type —, make of fuse —. Are the fittings for pumps

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

E.S.D., if fitted state maker Kelvin Hughes.....location of transmitter and receiver.....

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.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	3	Thrige	38	220	173	1000	Oil Eng	Pelapone Ricardo
	1	Thrige	20	220	91	900/1050		Belt driv. by M.E.
Harbour	1	Thrige	18	220	82	1000	Oil Eng	Pelapone Ricardo
EMERGENCY ROTARY TRANSFORMER								

GENERATOR CABLES.

[illegible]

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

DESCRIPTION.								
D.B. Vent. fans	1	6	19,5	29	16	Rubber	L.C. & S.W.A.	
D.B. Hold fans	1	10	36.4	38	12	"	" " "	
D.B. Hold fans	1	10	36.4	38	116	"	" " "	
D.B. Wireless	1	4	10	22,5	32	"	" " "	
D.B. Navigation light	1	2,5 & 2,5	1	15,5	15,5	32	"	" " "
D.B. Navigation bridge	1	6	5	29	28	"	" " "	
D.B. Boat deck	1	6	10	29	28	"	" " "	
D.B. Shelter deck	1	16	35	49	28	"	" " "	
D.B. Deck light shelter deck	1	6	25	29	28	"	" " "	
D.B. Main Deck	1	6	14	29	22	"	" " "	
D.B. Forecastle	1	4	3	22,5	116	"	" " "	
D.B. Engine Room	1	2,5	3	15,5	4	"	" " "	
D.B. Oil heater and purifier	1	10	31	38	32	"	" " "	

DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).			
CONDUCTORS	MAXIMUM CURRENT	APPROX.	

[illegible]

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						Rubber	L.C. & S.T.A.
Bilge pump	1	20	1	50	77	✓ 99	22	"	" " "
Fire pump	1	16	1	35	62	✓ 78	18	"	" " "
Ballast pump	1	8,8	1	16	35	✓ 49	20	"	L.C. & S.W.A.
Lubricating oil pump	1	9	1	16	35,5	✓ 49	24	"	" " "
Lubricating oil purifier	1	0,6	1	1,5	2,8	✓ 9,5	28	"	" " "
Oil fuel purifier	1	0,6	1	1,5	2,8	✓ 9,5	28	"	" " "
Oil fuel transfer pump	1	1,3	1	1,5	5,5	✓ 9,5	34	"	" " "
Hydrophor pumps	2	1,35	1	1,5	5,8	✓ 9,5	14	"	" " "
Refr. compressor	1	1,8	1	4	7,9	✓ 22,5	34	"	" " "
Cool. pump for refr. mchy.	1	0,75	1	4	3,3	✓ 22,5	8	"	" " "
Crane motors hydr pumps	3	40	1	95	153	✓ 160	32-86	"	L.C. & S.T.A.
Windlass hydr. pump	1	35	1	95	132	✓ 160	124	"	" " "
Capstan " "	1	25	1	50	96	✓ 105	30	"	" " "
Steering gear	1	2,5	1	6	11,5	✓ 29	32	"	L.C. & S.W.A.
E.R. Vent. fans	2	1,15	1	1,5	4,8	✓ 9,5	20	"	" " "
Acc. Vent. fan	1	1,15	1	1,5	4,8	✓ 9,5	20	"	" " "
Hold Vent. fans	8	2	1	2,5	8	✓ 15,5	12-60	"	" " "

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.

SOLVESBORGS VAPOR & REDEM A-D

Electrical Contractors.

Date 27-8-58

S. Clarue

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

SOLVESBORGS VAPOR & REDEM A-D

Builder's Signature.

Date 27-8-58

S. Clarue

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. Appr. London 24.6.57.

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 above described electrical equipment installation has been fitted onboard in accordance with the Rules, approved plans and instructions and has been tested with satisfactory results.

The workmanship and materials are good.

This electrical equipment installation is, in my opinion, suitable for a classed vessel.

Total Capacity of Generators. 152 Kilowatts.

The amount of Fee ... £r. 970:--

When applied for,
29/8 1958.

When received,

Travelling Expenses (if any) £ - :

- 19.

S. Goring
Surveyor to Lloyd's Register of Shipping.

FRIDAY 26 SEP 1958

Committee's Minute

Assigned

See Rpt 1.