

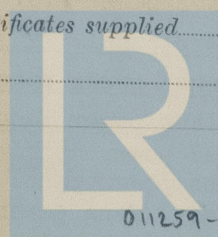
Rpt. 13

No. 27564.

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 13.4 19 62 When handed in at Local Office 19/4 19 62 Received at London Office
 No. in Survey held at Uddevalla. Date, First Survey 16.8.61. Last Survey 6.4 19 62. Port of Gothenburg.
 Reg. Book 1/40152 on the S/S "ASA V. CALL" (No. of Visits 44.)
 Built at Uddevalla. By whom built Uddevallavarvet A/B. Yard No. 204. When built 1962.
 Owners California Shipping Co. Port belonging to Monrovia.
 Installation fitted by Messrs. Andersson & Callenberg. When fitted 1962.
 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. No. Radar. Yes.
 Plans, have they been submitted and approved Yes. System of Distribution Three phase - three wire Voltage of Lighting 120.
 Heating 220 and 120 Power 450 D.C. or A.C. Lighting A.C. Power A.C. If A.C. state frequency 60°/s.
 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 2 off turbo alternators at E.R. lower platform deck starboard side. - 1 off H.O.E. driven alternator in generator room on boat deck, 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 E.R. lower platform deck starboard side and generator room boat deck, aft.
 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. Dead front switchboards, fittings mounted on insulated bases, 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 3-pole circuit breaker with overload and reverse power tripping.
 and the switch and fuse gear (or circuit breakers) for each outgoing circuit 3-pole switches with one fuse in each pole.
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes. Instruments on main switchboard 4 ammeters. 3 voltmeters 1 synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection. Earth Testing, state means provided Lamps 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. Stotz; Merlin Gerin; make of fuses and Necs, are all fuses labelled Yes. If circuit breakers are provided for the generators, at what power overload do they operate 166.6% and 60-120 seconds, and at what current do the reverse current protective devices operate 20-25 KW and 15 seconds. Cables, are they insulated and protected as per Rule. 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 < 6% 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 Yes, if so, are they adequately protected Yes. State type of cables (if in conduit this should also be stated) in machinery spaces V.C, L.C. and B.B., galleys V.C, L.C and B.B. and laundries R, L.C. and B.B. State how the cables are supported or protected All power cables V.C, L.C. and B.B. clipped to surface plate or tray in machinery spaces and deck; Lighting cables R, L.C. and B.B. or S.B. clipped to surface or wood grounds in accomodations, also drawn in conduits behind panels.
 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.
 Have refrigeration fan motors been constructed under survey and test certificates supplied.
 Are the motors accessible for maintenance at all times.



© 2021

Lloyd's Register Foundation

011259-011256-019212

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes. Emergency Supply, state position
The separate generator room on boat deck aft.

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
ampere hours. Where required to do so does it comply with 1948 International Convention.

Lighting, is fluorescent lighting fitted. Yes. If so, state nominal lamp voltage 120 and compartments where lamps are fitted
E.R., B.R., galley, passage ways etc.

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, whether fixed or portable provided, 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. 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. Yes.

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 fuses Stotz and Merlin Gerin. 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 Electroacoustic location of transmitter and receiver. C.D. in E.R. starboard side.

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	Amps	Revs. per Min.	TYPE	MAKER
MAIN	2	General Electric Company	750	450	1202	1200	Steam turbine	De Laval, Trenton N.J.
EMERGENCY ROTARY TRANSFORMER	1		100	450	160	1200	H.O. Eng.	Südd. Bremsen A.G. Munich.

GENERATOR CABLES

DESCRIPTION	No. of	Kw.	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet)	INSULATION	PROTECTIVE COVERING
			No. in Parallel per Pole	Sectional Area or Size	In the Circuit	Rule			
MAIN GENERATOR	2	750	5	3 x 400	1202	1390	20	V.C.	L.C. and B.B.
" " EQUALISER									
EMERGENCY GENERATOR	1	100	1	3 x 212	160	190	20	V.C.	L.C. and B.B.
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.)

DESCRIPTION	No. of	Kw.	CONDUCTORS	MAXIMUM CURRENT	APPROX. LENGTH	INSULATION	PROTECTIVE COVERING
Aft lighting transformer: Primary	1		3x66	95	92	10	V.C. L.C. and B.B. x(118)
: Secondary	2		2x212	370	380	10	V.C. L.C. and B.B.
Emerg. lighting transformer: Primary	1		3x16	35	39	10	V.C. L.C. and B.B.
: Secondary	1		3x133	133	139	10	V.C. L.C. and B.B.
Fwd. lighting transformer: Primary	1		3x16	28	39	25	V.C. L.C. and B.B.
: Secondary	1		3x133	107	139	25	V.C. L.C. and B.B.
Emerg. lighting transformer: Primary	1		3x16	35	39	25	V.C. L.C. and B.B.
: Secondary	1		3x133	133	139	25	V.C. L.C. and B.B.
Galley power panel transformer: Primary	1		3x66	81	92	185	V.C. L.C. and B.B.
220 V: Secondary	1		3x212	162	190	20	V.C. L.C. and B.B.
D.B. AA: E.R. power panel S.B.	1		3x250	218	210	75	V.C. L.C. and B.B. x(264)
D.B. AB: E.R. power panel P.S.	1		3x133	110	139	90	V.C. L.C. and B.B.
D.B. AC: B.R. power panel	1		3x133	117	139	105	V.C. L.C. and B.B.
D.B. AD: Engine shop power panel	1		3x16	40	39	70	V.C. L.C. and B.B. x(51)
D.B. AE: Refr. plant power panel	1		3x20	39	45	150	V.C. L.C. and B.B.
D.B. AL: Air. cond power panel	1		3x133	114	139	120	V.C. L.C. and B.B.
D.B. AG: E.R. fans power panel	1		3x133	141	139	105	V.C. L.C. and B.B. x(181)
D.B. AH: Accom. aft. fans power panel	1		3x33	55	62	105	V.C. L.C. and B.B.
D.B. AK: Midship switchboard	1		3x133	135	139	460	V.C. L.C. and B.B.
D.B. CA: Midship emerg. switchboard	1		3x33	65	62	460	V.C. L.C. and B.B. x(78)

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

DESCRIPTION	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet)	INSULATION	PROTECTIVE COVERING
	No. in Parallel per Pole	Sectional Area or Size	In the Circuit	Rule			
S.B. AKA. Nav. bridge lighting.	1	3x6	13	21	70	V.C.	L.C. and B.B.
S.B. AKAB. Upper bridge lighting.	1	3x10	22	28	30	V.C.	L.C. and B.B.
S.B. AKAC. Lower bridge lighting.	1	3x33	60	62	15	V.C.	L.C. and B.B.
S.B. AKAD. Fole. lighting.	1	3x33	23	62	170	V.C.	L.C. and B.B.
S.B. BAA. Main deck light, Stb.	1	3x16	32	39	70	V.C.	L.C. and B.B.
S.B. BAB. Main deck light, Stb.	1	3x16	36	39	130	V.C.	L.C. and B.B.
S.B. BFA. Main deck light, Port.	1	3x16	33	39	35	V.C.	L.C. and B.B.
S.B. BFB. Main deck light, Port.	1	3x10	28	28	100	V.C.	L.C. and B.B.
S.B. BBA. Poop deck light, Fwd.	1	3x16	31	39	50	V.C.	L.C. and B.B.
S.B. BBB. Poop deck light, Stb.	1	3x16	32	39	85	V.C.	L.C. and B.B.
S.B. BBC. Poop deck light, Port.	1	3x16	34	39	120	V.C.	L.C. and B.B.
S.B. BCA. E.R. light. Lower, Stb.	1	3x10	22	28	90	V.C.	L.C. and B.B.
S.B. BCB. E.R. light. Upper, Port.	1	3x6	7	21	90	V.C.	L.C. and B.B.
S.B. BCC. E.R. light. Lower, Port.	1	3x10	29	28	10	V.C.	L.C. and B.B. x(39)
S.B. BCD. E.R. light. Upper, Port.	1	3x6	7	21	60	V.C.	L.C. and B.B.
S.B. BCE. Pump room light.	1	3x6	12	21	145	V.C.	L.C. and B.B.
S.B. BD. Boiler room light.	1	3x20	30	45	130	V.C.	L.C. and B.B.
S.B. BE. E.R. and refr. plant.	1	3x16	30	39	10	V.C.	L.C. and B.B.
S.B. CAAB. Emerg. light nav. panel.	1	3x20	36	45	10	V.C.	L.C. and B.B.
S.B. CAAC. Emerg. light u. and l. bridge.	1	3x6	12	21	20	V.C.	L.C. and B.B.

MOTOR CABLES

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	B.H.P.	CONDUCTORS	MAXIMUM CURRENT	APPROX. LENGTH	INSULATION	PROTECTIVE COVERING
Main circ. pump	1	150/91	1	3x400	224/148	278	75 V.C. L.C. and B.B.
Main condensate pumps	2	40	1	3x33	50	62	55 V.C. L.C. and B.B.
Forced draft fans	2	150	1	3x250	190	210	185 V.C. L.C. and B.B.
Aux. circ. pump	1	30	1	3x33	42.5	62	30 V.C. L.C. and B.B.
Atm. cond. circ. pump	1	30	1	3x33	39	62	25 V.C. L.C. and B.B.
Steering gear	2	90	1	3x400	128	278	200 V.C. L.C. and B.B.
O.P. service pumps	2	20/10	1	3x10	25/23	28	50 V.C. L.C. and B.B.
Lub. oil pumps	2	40	1	3x33	50	62	130 V.C. L.C. and B.B.
Fire pumps	2	58	1	3x66	69	92	150/90 V.C. L.C. and B.B.
Atmospheric drain pumps	3	19	1	3x10	25	28	85 V.C. L.C. and B.B.
L.P. heater drain pumps	2	7.5	1	3x6	9.7	21	25 V.C. L.C. and B.B.
Gland leak off exh.	2	1.5	1	3x6	2.4	21	110 V.C. L.C. and B.B.
Turning gear	1	10	1	3x6	13	21	50 V.C. L.C. and B.B.
Aux. cond. pump	1	7.5	1	3x6	9.5	21	70 V.C. L.C. and B.B.
Evap. circ. pumps	2	10	1	3x6	13	21	40 V.C. L.C. and B.B.
Evap. cond. pumps	2	3.5	1	3x6	5	21	35 V.C. L.C. and B.B.
Evap. brine pumps	2	3.5	1	3x6	5	21	35 V.C. L.C. and B.B.
Dead ship. start. pump	1	3	1	3x6	4.2	21	90 V.C. L.C. and B.B.
Control. air. compr.	1	11	1	3x6	14	21	55 V.C. L.C. and B.B.
Service air comprs.	2	30	1	3x20	37	45	50 V.C. L.C. and B.B.
E.R. fans	2	35/10	1	3x33	45	62	35/75 V.C. L.C. and B.B.
B.R. fans	2	13/6	1	3x6	17.2	21	45/90 V.C. L.C. and B.B.
Pump room fans	2	7/3	1	3x6	9.9	21	180 V.C. L.C. and B.B.

N.B. The Rule current obtained by interpolation between American Standards (area) and 1962 I.R. Rules.

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.

Karl Olander
Uddevallavarvet Aktiebolag

Electrical Contractors.

Date 16.4.62

COMPASSES

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

Uddevallavarvet Aktiebolag

Karl Olander

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..... Yes. If so, state name of vessel S/S "George L. Parkhurst"

N.Y.K. 4.12.58.

Plans. Are approved plans forwarded herewith..... No. If not, state date of approval Got. 29.2.15.6 and 13.7 - 1960.

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The above described el. equipment installation has been fitted in the vessel in accordance with Rules, approved plans and instructions and has been tested with satisfactory results.

The workmanship is good.

Lloyd's and Makers certificates in respect of generators and motors are attached when available. (Note: Makers certificate of motors for essential service, where missing, will be sent over when received from U.S.A.)

This el. equipment installation is, in my opinion, suitable for a Classed vessel.

Total Capacity of Generators..... 1600 Kilowatts.

The amount of Fee ...Kr. ... £ 4010:--

When applied for,
19/4 19 62

Travelling Expenses (if any) £ ----

When received,
--- 19 ---

Surveyor to Lloyd's Register of Shipping

FRIDAY 25 MAY 1962

Committee's Minute

Assigned

See Rpt 1