

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 and fitted as per Rule....., are they adequately ventilated.....
state battery capacity in ampère hours.....

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

Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. *Yes*

Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. Yes
if so, how are they protected. Cables led in gas tight tubing & lamps contained in flameproof fittings

and where are the controlling switches fitted. Wholly outside these spaces Are all fittings suitably ventilated. Yes

and where are the controlling switches fitted on the main switch of motor Are all fittings suitably ventilated yes

Searchlight Lamps, No. of ✓, 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

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

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

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 ✓

Control Gear and Resistances, are they constructed and fitted as per Rule. Yes Lightning Conductors, where required are they fitted as per

Control Gear and Resistances, are the constructed and fitted as per Rule..... Lightning Conductors, where required are they fitted as per Rule.....

Ships carrying Oil having a Flash Point 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 L.K. & NES. Are the fittings for pump

complied with. Yes, are all fuses of an Approved Cartridge Type. Yes, made of fuse _____. Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. Yes. Are the cables lead covered as per Rule. Yes.

E.S.D. No. 647-10 Messrs. S.D. Co Ltd., Mumbai, in two double tanks at _____ and in two double tanks at _____.

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

E.S.D., if fitted state maker Marconi S.D. Co. Ltd. Location of transmitter on fwd. deck tanks at
port end of fwd. cofferdam. and receiver on fwd. deck tanks at
port end of fwd. cofferdam.

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations. *port bid. of Govd. coffers* *port bid. of Govd. coffers* *yes*

PARTICULARS OF GENERATING PLANT.

PARTICULARS OF GENERATING PLANT.									
DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.		
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.	
MAIN ...	2	Orca	150	230 ✓	652 ✓	350	MAN. G4 V42	Hochmuth & Mels. V.G. Co.	
Harbour	1	G.E.C.	40	230 ✓	174 ✓	525	Steam eng.	W. Simpson & Co. Ltd.	
EMERGENCY ... ROTARY TRANSFORMER		Thomas B. Shriggs	30	110 ✓	261 ✓	1400	26. motor	Thomas B. Shriggs.	

GENERATOR CABLES.

GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area No. and Dia. of Cables. sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	150	3	185	652	699		<i>Pb/Alu</i>	<i>Lead covered & armoured</i>
" " EQUALISER		6	185					
<i>Harbours.</i>	40	1	120	174	174		"	" "
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...	34	1	120	170	174			
" " GENERATOR...	30	1	240	261	270			

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

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).						
DESCRIPTION.						
B1a.	1	50	63.5	98	Rubber	Lead covered 2 armoured
B16, B2, B3.	1	25	max. 54.5	63	"	" "
B1c.	1	4	10	21	"	" "
B4.	1	10	41	38	"	" "
B5a, B5b.	1	2.5	max. 7	13	"	" "
B1.	1	185	133	233	"	" "
C2.	1	35	73	78	"	" "
C3.	1	16	40	48	"	" "
C4, C5.	1	70	max. 113	128	"	" "
C1.	1	95	72	150	"	" "

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

[illegible]

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.			No.	B.H.P.	MOTOR CABLES.							
✓	Bridge pumps.	1	8	1	10	32	38	11	Embley.	Load covered & unarmoured		
✓	Wire pumps.	1	21	1	35	79	79	16	"	"	"	"
✓	Circ. gas meters pumps	2	41	1	120	151	174	max. 62	"	"	"	"
✓	" fresh "	2	33	1	70	126	128	" 81	"	"	"	"
✓	Circ. gas & fresh water pumps for air, eng.	1	11	1	16	43.5	48	30	"	"	"	"
✓	Inducatorily oil pumps.	2	46	1	120	172	174	max. 85	"	"	"	"
✓	Compress. running gear.	1	16	1	25	64	64	70	"	"	"	"
✓	Oil feed pumps for pumps.	1	5	1	4	20	21	11	"	"	"	"
✓	Cool. pumps for fresh water.	2	1	1	1.5	4.5	7	16	"	"	"	"
✓	Lubric. oil evaporators.	1	7.7	1	10	30.3	38	22	"	"	"	"
✓	Fuels "	1	4	1	4	16.5	21	43	"	"	"	"
✓	Refr. compressors.	1	4.8	1	6	19	28	56	"	"	"	"
✓	Hydrophobic pumps.	2	2	1	2.5	8.1	13	max. 20	"	"	"	"
✓	Flashing gear.	2	24.5	1	50	93	99	" 124	"	"	"	"
✓	Lift blocks.	1	6.45	1	6	30	30	35	"	"	"	"
✓	Circ. pump for abt. gas econom.	1	1.5	1	2.5	6.5	13	15	"	"	"	"
✓	Lathes.	1	5	1	4	20	21	52	"	"	"	"
✓	Drilling machines.	1	1.8	1	2.5	7.65	13	12	"	"	"	"
✓	Grinding "	1	1.5	1	2.5	6.4	13	28	"	"	"	"

The Electrical Equipment is installed in accordance with the approved plans and the requirements.

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.

Nils E. Brønning

Electrical Contractors.

Date *27th Oct. 1949.*

COMPASSES.

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

*KOCKUMS
MEKANISKA VERKSTÄDS AKTIEBOLAG*

Paul Brønning

Builder's Signature.

Date *27th Oct. 1949.*

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. *15.8.1949.*

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

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

*The above described electrical equipment installation has been fitted onboard under survey in accordance with the Rules, approved plans and instructions.
The workmanship and the materials are good.*

Recommended:- *One spare motor generator of 30 KW, 220/110 Volt to be placed onboard before the end of October, 1950.*

Total Capacity of Generators *340* Kilowatts.

The amount of Fee *mmr. Kr. 1408.-* When applied for, *28.10.1949.*
skmr. " 352.-

Travelling Expenses (if any) *Kr. 42.40* When received, *19*

Committee's Minute

Assigned *In uniki see J.E. Rpl-*

A. Brønning
Surveyor to Lloyd's Register of Shipping.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 31 OCT 1949

Date of writing Report 26th Oct. 1949 When handed in at Local Office 28th Oct. 1949 Port of Malmö
 No. in Survey held at Malmö Date, First Survey 15th Aug. Last Survey 18th Oct. 1949
 Reg. Book No. 40043 on the M/T "VENUS" (No. of Visits 26) Tons { Gross 10,606
 Net 6,205
 Built at Malmö By whom built Höckemro m. V. A. B. Yard No. 345 When built 1949
 Owners Rederi A. B. Nordstjärnan Port belonging to Stockholm
 Installation fitted by Höckemro m. V. A. B. When fitted 1949
 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 No

Plans, have they been submitted and approved Yes System of Distribution Two wire Voltage of Lighting 110
 Heating 110 & 220 Power 220 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency 50
 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 Yes, 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 Main - One on each side in eng. room. Harbour steam driven - One on platform at port side of engine room.
 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 One on platform at port side of 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 Main - Steel, 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 A double pole circuit breaker with overhead and reverse current trips and a single pole equaliser switch.
 and the switch and fuse gear (or circuit breakers) for each outgoing circuit A double pole linked 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 8
 ammeters 3 voltmeters 1 synchronising devices Yes 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 Ohm meters

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes
 make of fuses L.K. & N.E.S., are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate Main - 730 A. Harbour - 195 A. and at what current do the reversed current protective devices operate Main - 75-80 A. Harbour - 25 A.
 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 Less than allowed in R.C. 20. 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 Supported by metal clips.
Protected where necessary

Are all lead sheaths, armoring 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