

Report on Electrical Equipment

(OTHER THAN THE PROTECTED OF THE VESSEL)

13th Nov. 43.

16th Nov. 43.

Port of Malmö.

Malmö.

13th April

27th Aug. 43.

✓ Single burner Motor Generator "JULIAN"

Malmö

Kockums M.V.A.B.

Yard No. 224

When built 1943.

Hilmar Okeström

Port belonging to Bergen

Kockums M.V.A.B.

Contract No. ✓

When fitted 1943.

Yes. Is vessel equipped with D.F. Yes E.S.D. - Gy. C. - Sub. Sig. -

Yes. System of Distribution Two wire system Voltage of supply for Lighting 110

110 & 220

220

Direct Power Direct

✓ Alternating Current state frequency ✓ Prime Movers.

No. Are turbine emergency governors fitted with a

Generators, are they compound wound Yes. are they level compounded under working conditions Yes.

✓ and from switchboard ✓ Where more than one generator is fitted are they

Yes. are short field regulators provided Yes. Is the compound winding connected to the negative or positive pole

Negative pole.

Have each one over 100 lbs. (as inspected by the Surveyors during manufacture and testing) Yes. Have certificates of

Yes. Are the lubricating arrangements and the construction

Memorandum: One on each side in motor space. Ant. steam driven: One 2nd deck in motor space.

port side.

Yes. are they clear of inflammable material Yes. if situated

✓ and vertically ✓ are the generators protected from mechanical

Yes. are the bedplates and frame earthed Yes. and the prime movers and generators in relative

Yes. In front of motor space, port side.

Yes. are they protected from mechanical injury and damage from water down

Yes

Main - Insul.

One bar of metal. Yes. Is the frame effectively earthed Yes.

Yes. Is there a possibility of parts Yes. Is there a possibility of parts Yes.

Yes. A double pole circuit breaker with overload and reverse current trips and a single pole equaliser switch.

A double pole linked switch and a fuse on each pole.

Yes. Instruments on main switchboard 9.

L.F. 10/12/83

Yes. Ohm. meters.



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Switches, Circuit Breakers and Fuses, are they as per Rule *Yes* are the fuses an approved type *Yes* are all fuses labelled as per Rule *Yes* the protective current protection device is connected on the pole opposite to the equalizer connection *Yes* have they been tested *Not yet*

Section Board and Distribution Boards, is the construction and position as per Rule *Yes* if otherwise than as per Rule are they of an approved type *Not yet tested*

Cables, are they supported and protected as per the appropriate Rules *Yes* are the ends of all cables having a sectional area of 10 sq. mm. or more, protected by a lead sheath or other suitable covering *Yes* are paper insulated and varnished fabric insulated cables sealed at the exposed ends *Yes* with insulating compound *Yes* or with waterproof insulating tape *Yes* are all the cable runs in accessible positions, not exposed to fire or accumulation of water or oil, high temperatures or risk of mechanical damage *Yes* are cables laid under machines or floorplates *Yes* or are they adequately protected *Yes* are cables in machinery spaces, galleys, lavatories, etc. lead covered *Yes* or run in conduit *Yes* how are the cables supported and protected *Supported by metal clips. Protected where necessary.*

Are all lead sheaths, armoring and conduits effectually bonded and earthed *Yes* Refrigerated chambers, are the cables and fittings as per Rule *Yes*

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *Yes* where unarmoured cables pass through bulkheads, are the holes effectively bushed *Yes* and with what material *Lead* Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule *Yes* Emergency Supply, state position *Yes* and method of control *Yes*

Navigation Lamps, are they separately wired *Yes* controlled by separate double pole switches *Yes* 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* Secondary Batteries are they constructed and fitted as per Rule *Yes* are they adequately ventilated *Yes* Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof *Yes* Are 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 *Lamps contained in gastight fittings and cables led in gastight tubing.*

and where are the controlling switches fitted *Wholly outside these spaces* are all fittings suitably ventilated *Yes* are all fittings and accessories constructed and installed as per Rule *Yes* Searchlight Lamps, No. of *Yes* whether fixed or portable *Yes* are their fittings as per Rule *Yes* Heating and Cooking, is the general construction as per Rule *Yes* are the frames effectually earthed *Yes* are heaters in the accommodation of the connection type *None* Motors are all motors constructed and installed as per Rule *Yes* and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil *Yes* if situated near unprotected combustible material, do the motor frames extend from above horizontally *Yes* and vertically *Yes* Motors of 100 H.P. and over have been inspected by the Surveyor during manufacture and fitting *None* Have certificates of test for motors under 100 H.P. intended for essential services been supplied and the results noted as per Rule *Yes* Control Gear and Resistances are they constructed and fitted as per Rule *Yes* Ships carrying oil having a Flash Point below 150° F Have all the special requirements of the Rules for such ships been complied with *Yes* are all bases of the carriage type *Yes* are they of an approved type *Yes* (1) portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof type *Yes* (2) Spare Gear, if the vessel is for open sea service have spares been provided as per Rule *Yes* are they suitably stored in dry situations *Yes* Installation Tests, has the installation compliance of all circuits and apparatus been properly tested and found satisfactory *Not yet*

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR	No. of	Kilowatts	Volts	Amperes	Revolutions per Min.	Fuel Used	Flash Point of Fuel
MAIN	2	100	230	435	350	Heavy oil engines	Heavy oil. Above 150° F
Auxiliary	1	25	240	114	600	Steam engine	
Emergency	1	20	115	174	1800		

GENERATOR CABLES.

DESCRIPTION	Kilowatts	No. of Conductors Per Cable	CONDUCTOR		MAXIMUM CURRENT IN CABLES		APPROX. TEMPERATURE OF CABLE SURFACE	INSULA- TION WIRE	HOW PROTECTED.
			Sectional Area — [sq. mm. or sq. in.]	Insulation Thickness [mm. or in.]	In the Cable	Per Cable			
MAIN GENERATOR	100	2	185		435	464	max. 40	Rubber.	Lead covered
" "									

MAIN DISTRIBUTION CABLES.

400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000, 10100, 10200, 10300, 10400, 10500, 10600, 10700, 10800, 10900, 11000, 11100, 11200, 11300, 11400, 11500, 11600, 11700, 11800, 11900, 12000, 12100, 12200, 12300, 12400, 12500, 12600, 12700, 12800, 12900, 13000, 13100, 13200, 13300, 13400, 13500, 13600, 13700, 13800, 13900, 14000, 14100, 14200, 14300, 14400, 14500, 14600, 14700, 14800, 14900, 15000, 15100, 15200, 15300, 15400, 15500, 15600, 15700, 15800, 15900, 16000, 16100, 16200, 16300, 16400, 16500, 16600, 16700, 16800, 16900, 17000, 17100, 17200, 17300, 17400, 17500, 17600, 17700, 17800, 17900, 18000, 18100, 18200, 18300, 18400, 18500, 18600, 18700, 18800, 18900, 19000, 19100, 19200, 19300, 19400, 19500, 19600, 19700, 19800, 19900, 20000, 20100, 20200, 20300, 20400, 20500, 20600, 20700, 20800, 20900, 21000, 21100, 21200, 21300, 21400, 21500, 21600, 21700, 21800, 21900, 22000, 22100, 22200, 22300, 22400, 22500, 22600, 22700, 22800, 22900, 23000, 23100, 23200, 23300, 23400, 23500, 23600, 23700, 23800, 23900, 24000, 24100, 24200, 24300, 24400, 24500, 24600, 24700, 24800, 24900, 25000, 25100, 25200, 25300, 25400, 25500, 25600, 25700, 25800, 25900, 26000, 26100, 26200, 26300, 26400, 26500, 26600, 26700, 26800, 26900, 27000, 27100, 27200, 27300, 27400, 27500, 27600, 27700, 27800, 27900, 28000, 28100, 28200, 28300, 28400, 28500, 28600, 28700, 28800, 28900, 29000, 29100, 29200, 29300, 29400, 29500, 29600, 29700, 29800, 29900, 30000, 30100, 30200, 30300, 30400, 30500, 30600, 30700, 30800, 30900, 31000, 31100, 31200, 31300, 31400, 31500, 31600, 31700, 31800, 31900, 32000, 32100, 32200, 32300, 32400, 32500, 32600, 32700, 32800, 32900, 33000, 33100, 33200, 33300, 33400, 33500, 33600, 33700, 33800, 33900, 34000, 34100, 34200, 34300, 34400, 34500, 34600, 34700, 34800, 34900, 35000, 35100, 35200, 35300, 35400, 35500, 35600, 35700, 35800, 35900, 36000, 36100, 36200, 36300, 36400, 36500, 36600, 36700, 36800, 36900, 37000, 37100, 37200, 37300, 37400, 37500, 37600, 37700, 37800, 37900, 38000, 38100, 38200, 38300, 38400, 38500, 38600, 38700, 38800, 38900, 39000, 39100, 39200, 39300, 39400, 39500, 39600, 39700, 39800, 39900, 40000, 40100, 40200, 40300, 40400, 40500, 40600, 40700, 40800, 40900, 41000, 41100, 41200, 41300, 41400, 41500, 41600, 41700, 41800, 41900, 42000, 42100, 42200, 42300, 42400, 42500, 42600, 42700, 42800, 42900, 43000, 43100, 43200, 43300, 43400, 43500, 43600, 43700, 43800, 43900, 44000, 44100, 44200, 44300, 44400, 44500, 44600, 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151600, 151700, 151800, 151900, 152000, 152100, 152200, 152300, 152400, 152500, 152600, 152700, 152800, 152900, 153000, 153100, 153200, 153300, 153400, 153500, 153600, 153700, 153800, 153900, 154000, 154100, 154200, 154300, 154400, 154500, 154600, 154700, 154800, 154900, 155000, 155100, 155200, 155300, 155400, 155500, 155600, 155700, 155800, 155900, 156000, 156100, 156200, 156300, 156400, 156500, 156600, 156700, 156800, 156900, 157000, 157100, 157200, 157300, 157400, 157500, 157600, 157700, 157800, 157900, 158000, 158100, 158200, 158300, 158400, 158500, 158600, 158700, 158800, 158900, 159000, 159100, 159200, 159300, 159400, 159500, 159600, 159700, 159800, 159900, 160000, 160100, 160200, 160300, 160400, 160500, 160600, 160700, 160800, 160900, 161000, 161100, 161200, 161300, 161400, 161500, 161600, 161700, 161800, 161900, 162000, 162100, 162200, 162300, 162400, 162500, 162600, 162700, 162800, 162900, 163000, 163100, 163200, 163300, 163400, 163500, 163600, 163700, 163800, 163900, 164000, 164100, 164200, 164300, 164400, 164500, 164600, 164700, 164800, 164900, 165000, 165100, 165200, 165300, 165400, 165500, 165600, 165700, 165800, 165900, 166000, 166100, 166200, 166300, 166400, 166500, 166600, 166700, 166800, 166900, 167000, 167100, 167200, 167300, 167400, 167500, 167600, 167700, 167800, 167900, 168000, 168100, 168200, 168300, 168400, 168500, 168600, 168700, 1							
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LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	1	16		48 ✓	176	Rubber	Lead covered
NAVIGATION LIGHTS	1	6	3	28	222	"	and armoured.
LIGHTING AND HEATING							
Main head lights.	1	1.5	0.4	8 ✓	max. 140	"	" "
Side lights.	1	1.5	0.4	8 ✓	" 40	"	" "
Port light.	1	1.5	0.4	8 ✓	240	"	" "
Compass lights.	1	1.5	0.4	8 ✓	max. 20	"	" "
Water heaters.	1	1.5	3.3	8 ✓	30	"	" "
Oil heater.	1	50.	75	98 ✓	38	"	" "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED									
	No.	H.P.							
Bridge pumps.	1	5	1	6	20	28	32	Rubber.	Lead covered
Bridge & sanitary pumps.	1	8	1	10	32	40	36	"	and armoured.
Circ. sea water pumps	2	25	1	70	95	125	max. 60	"	"
Res. sea water pump for aux. eng.	1	5.5	1	6	21.5	28	37	"	"
Longitud. turning gear.	1	14	1	25	57	62	78	"	"
Lubricating oil pumps.	2	35	1	120	133	175	max. 68	"	"
Oil fuel transfer pump.	1	5	1	6	20	28	41	"	"
Coal. water pumps for messes	1	1	1	1.5	4.5	8	6	"	"
Oil separators.	2	3.2	1	4	13	22	max. 10	"	"
" separator.	1	3.5	1	4	14.2	22	7	"	"
Refrigerating compressors.	2	3	1	2.5	12.8	15	max. 12	"	"
Coal. water pumps for ditto.	2	0.25	1	2.5	1.4	15	" 10	"	"
Thruster gear.	1	15	1	25	58	62	134	"	"
Workshop motor.	1	3	1	4	12.5	22	8	"	"
Lift block.	1	6	1	6	20	28	72	"	"
Sanitary water pumps.	1	2.2	1	2.5	9.5	15	67	"	"
Salt "	1	2.2	1	2.5	9.5	15	67	"	"
Ventilating fans.	2	3.5	1	4	13.7	22	max. 9	"	"



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0218 2/2

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.

sgd/ Erik Hjort

Electrical Engineer

15-11-1943

COMPASSES.

Minimum distance between electric generators or motors and standard compass

Engine room to bridge.

Minimum distance between electric generators or motors and steering compass

Engine room to bridge.

The nearest cables to the compasses are as follows:

Cable carrying	Amps.	feet from standard compass	feet from steering compass
Alt. 3	9	6	
2 zone circuit			
3 zone circuit			

Have the compasses been adjusted with and without the electric installation at work at full power? No.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted?

The maximum deviation due to electric currents was found to be ☒ degrees on ☒ course in the case of the standard compass, and ☒ degrees on ☒ course in the case of the steering compass.

Rocknms Mek. V. A. B.

sgd/ G. Lundquist

Builder's Signature

15-11-194

E. H. t.

Is this installation a duplicate of a previous case? No. If so, state name of vessel.

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 materials are good.

To complete survey:-

The electric installation to be completed, megger tested and tested under working conditions and the maximum fall of pressure between two bars and any point under maximum load to be noted.

It cannot be stated when the survey will be completed.

Total capacity of Generators 225 KVA

(90% of total fee has been applied for)

The amount of fee

Mr. 586:63

16th Nov. 43.

Mr. 161:50

Mr. 50:00

Mr.

Colindale, R. Boring

Surveyor to Lloyd's Register of Shipping

FRI. 14 JAN 1944

see minute on
28 Rpt.



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