

2153

1 JUN 1943

## Report on Electrical Equipment

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

6<sup>th</sup> May. 43.7<sup>th</sup> May. 43.

Malmo.

31<sup>st</sup> Aug. 194218<sup>th</sup> March 43.

Survey held at

Book

Malmo

Date, First Survey

(Number of Vessels)

31

7372

4329

1943.

Imine Surar M/S "LA PLATA"

Malmo.

Kockum M. V. A. B.

Yard No. 251

When built

Rederiaktiebolaget Nordsjymann

Port belonging to

Stockholm.

Kockum Mek. Verkstads A. B.

Contract No.

When fitted

1943.

Is vessel fitted for carrying Petroleum in bulk No

Is vessel equipped with D.F.

Yes

E.S.D.

Yes

Gy. C.

Sub. Sig.

Yes

Has been submitted and approved

Yes

System of Distribution

Two wires.

Voltage of supply for lighting

110

220

220

Direct or Alternating Current, lighting

Direct

Direct

(Alternating Current state frequency)

Prime Movers

Has the generator been tested and found off when the whole load is suddenly thrown on and off

Yes.

Are turbine emergency generators fitted with a

trip switch as per Rule

Yes

Generators, are they compound wound

Yes

are they level compounded under working conditions

Yes

If not level, what would state distance between generators

Yes

and from switchboard

Yes

Where more than one generator is fitted are they

arranged to run in parallel

Yes

are short 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 Surveyor during manufacture and testing

Yes.

Have all machines

over 100 kw. been inspected

Yes

and the results found as per rule

Yes.

Are the lubricating arrangements and the condenser

of the generator satisfactory

Yes.

Main: Two on each side in motor space.

Emergency: One on

platform on each side of motor casing.

Is the generator satisfactory

Yes

are they clear of inflammable material

Yes

Are the generators protected from mechanical injury

Yes

and the prime mover and generator is suitable

for the service to which it is put

Yes

are the bedplates and frames suitable

Yes

and the prime mover and generator is suitable

for the service to which it is put

Yes.

Switchboards, are they suitable

Yes

On a platform in after end of motor

space, motor.

Are they protected from mechanical injury and fire

Yes

are they protected from mechanical injury and fire

and are they protected from mechanical injury

Yes

Is the motor suitable for the service to which it is put

Yes

Is the motor suitable for the service to which it is put

and are they protected from mechanical injury

Yes

Main - start.

Yes

Is the motor suitable for the service to which it is put

and are they protected from mechanical injury

Yes

Is the motor suitable for the service to which it is put

Yes

Is the motor suitable for the service to which it is put

and are they protected from mechanical injury

Yes

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and are they protected from mechanical injury

Yes

Is the motor suitable for the service to which it is put

Yes

Is the motor suitable for the service to which it is put

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.

12

4

Yes.

Other motors.



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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 labeled as per Rule *Yes* are the several current protection devices connected in the rule opposite to the equaliser connection *Yes* have they been tested under working conditions *Yes* Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule *Yes* Cables, are they insulated and protected as per the appropriate Tables of the Rules *Yes* it adheres than as per Rule are they of an approved type *Yes* does maximum fall of pressure between pins bars and any point under maximum load *Yes* are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets *Yes* Are paper insulated and varnished cambric insulated cables sealed at the exposed ends *Yes* with insulating compound *Yes* or 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* if so are they adequately protected *Yes* Are cables in machinery spaces, galleys, lavatories, etc., lead covered *Yes* or run in conduit *Yes* Sub have the cables are supported and protected *Yes* Supported by metal clips. Protected where necessary.

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 beams, etc., are the holes effectively finished *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 *Generator placed on a platform in motor casing in level with upper deck level, driven by a heavy oil engine.* and method of control *Switchboard placed in vicinity of generator.* 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 in engine, boiler, and engine rooms and wherever exposed to drip or condensed moisture, weatherproof *Yes* Are fittings installed where readily combustible materials or inflammable or explosive gas or vapors are likely to be present *No* if so, how are they protected *Yes* and where are the most fitting switches fitted *Yes* are all fittings suitably reclassified *Yes* are all fittings and accessories constructed and installed as per Rule *Yes* Searchlight Lamps, No. of *Yes* whether fixed or portable *Yes* are these fittings as per Rule *Yes* Heating and Cooking, is the general construction as per Rule *Yes* are the stoves effectively caulked *Yes* are heaters in the accommodation of the construction type *Yes* 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 leakage from water pipes and oil *Yes* if situated near unprotected combustible material state minimum distance from same horizontally *Yes* and vertically *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 services) been supplied and in results found as per Rule *Yes* Control Gears and Resistances are they constructed and installed as per Rule *Yes* Lightning Conductors, where required, are they fitted as per Rule *Yes* 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 the can type *Yes* are they of an approved type *Yes* If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery or flameproof type *Yes* Space Heat, of the kind as per rule and service have special provisions as per Rule *Yes* are they suitably stored in the machinery spaces *Yes* Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory *Yes*

# REQUIREMENTS OF GENERATING PLANT.

DESCRIPTION OF ENGINE	No.	HP	Volts	Amperes	Temp.	Notes
MAIN	4	100	230	435	350	Heavy oil engine. Heavy oil. Above 150° F.
EMERGENCY	1	12	110	109	380	Heavy oil engine. Heavy oil. Above 150° F.
ROTARY TRANSFORMER MOTOR	1	17.4	110	174		

## GENERATOR CABLES.

DESCRIPTION	No.	HP	Volts	Amperes	Temp.	Notes
MAIN GENERATOR	100	2	185	435	464	max. 34 Rubber lead covered and steel top armoured.
EQUALISER	2	2	185			" 34 " "
EMERGENCY GENERATOR	12	1	70	109	124	12.8 " "
ROTARY TRANSFORMER MOTOR	23	1	95	105	150	27 " "
GENERATOR	17.4	1	150	174	205	42 " "

## MAIN DISTRIBUTION CABLES.

AUX. SWITCHBOARDS AND SECTION BOARDS	No.	HP	Volts	Amperes	Temp.	Notes
B1, B106, B12	1	6	18	28	max. 149	Rubber lead covered and steel top armoured.
B2a, B2b, B3a, B3b, B6, B8, B11b, B11c	1	16	44	48	" 68	" "
B4, B5, B7	1	10	29	37	" 29	" "
B10a, B13	1	4	11	22	" 86	" "
A1, A4, A5, A6	1	50	83	98	" 152	" "
A2, A3	1	70	112	124	" 54	" "
A7	1	120	147	175	158	" "

## LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	No.	HP	Volts	Amperes	Temp.	Notes
NAVIGATION LIGHTS	1	2.5	3	15	78	" Rubber lead covered and steel top armoured.
LIGHTING AND HEATING	1	1.5	0.4	8	max. 160	" "
Most head lights	1	1.5	0.4	8	" 40	" "
Side lights	1	1.5	0.4	8	180	" "
Port light	1	1.5	0.4	8	20	" "
Starboard light	1	1.5	0.4	8	max. 20	" "
Compass lights	1	2.5	59	62	" 2	" "
Hot and cold oil heaters	1	2.5	45	62	42	" "
Fresh water heater	1	50	91	98	40	" "
Salt water heater	1					" "

## MOTOR CABLES.

ALL IMPERIAL MOTORS TO BE SUPPLEMENTED	No.	HP	Volts	Amperes	Temp.	Notes
Ballast pumps	1	60	185	221	232	46 Rubber lead covered and steel top armoured.
Bridge ventilating pumps	1	5	6	20	28	5 " "
Emergency bilge pumps	1	6	25	48	62	12 " "
Fire pumps	1	17	50	64	98	34 " "
Circ. sea water pumps	2	34	120	127	175	max. 52 " "
Compass winding gear	2	10	16	41.5	48	" 14 " "
Lubricating oil pumps	2	44.5	150	172	205	" 58 " "
Oil fuel transfer pumps	1	7.6	10	31	37	23 " "
Measuring compressors	2	58	185	213	232	max. 63 " "
Cargo oil pump	1	21.8	70	83	124	50 " "
Oil separators	3	3.5	4	15	22	4.5 " "
Circ. sea water pump for aux. eng.	1	5.4	6	21.8	28	9 " "
Cooling water pumps for fuel mount.	2	1	1.5	4.3	8	max. 7 " "
CO2 compressors	3	55/75	95	217/288	300	" 62 " "
Circ. sea water pumps for dist.	2	6	6	23.5	28	" 10 " "
Boiler pumps	4	10	16	39.5	48	" 6 " "
Aux. circ. fans	3	10	25	38.5	62	" 94 " "
" " "	3	5.5	6	21	28	" 106 " "
" " "	2	3	4	12.3	22	" 120 " "
Windlass	1	65	150	243	243	192 " "
Winches	2	39	95	145	150	max. 150 " "
"	14	24	70	92	124	" 112 " "
Winding winch	1	39	70	145	154	114 " "
Turning gear	2	15	25	59	62	170 " "
Turb. fans in eng. room aft.	2	3.6	2.5	14.4	15	max. 20 " "
Throp motor	1	3	4	12.5	22	62 " "

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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 Engineers. Date 7-5-1943.

#### COMPASSES

Minimum distance between electric conductors or motors and standard compass

46 feet

Minimum distance between electric conductors or motors and steering compass

49 feet

The nearest cables to the compass are as follows:

1 cable carrying abt. 3 Amperes 16 feet from standard compass 13 feet from steering compass

1 cable carrying Amperes feet from standard compass feet from steering compass

1 cable carrying Amperes feet from standard compass feet from steering compass

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

Have the effects of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted No

The magnetic 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

Hochums Mek. Verkstads A.-B.

sgd/ G. Lundegvist / E. Hjort.

Builder's Signature Date 7-5-1943

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 1939-40, approved plans and instructions.

The workmanship and the materials are good.

To complete survey:-

The electric installation is to be 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.

Noted  
L.H.  
7/6/43.

412

Mms. Hr. 809:40 15th April 43.  
Hm. Hr. 199:50  
Hm. Hr. 81:50 3rd May 43.

Alanson, A. Barring

FRI. 11 JUN 1943

See entry J.C. Rpt.



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