

Rpt. 13.

No. 108234

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

28 MAR 1951

Date of writing Report 5<sup>th</sup> MARCH 1951 When handed in at Local Office 13 MAR 1951 19 Port of NEWCASTLE-ON-TYNE  
 No. in Survey held at BLYTH Date, First Survey 30/8/50 Last Survey 2/3/51 19  
 Reg. Book. 95494 on the M.V. "ROSA MAERSK"  
 Built at BLYTH By whom built BLYTH D.D. & S.B. CO. LTD. Yard No. 343 When built 1951  
 Owners A.P. MOLLER Port belonging to FREDERICIA  
 Installation fitted by BLYTH D.D. & S.B. CO. LTD  
 Is vessel equipped for carrying Petroleum in bulk YES Is vessel equipped with D.F. — E.S.D. YES Gy.C. YES RADAR YES  
 Tons { Gross 8191.83 Net 4827.19

Plans, have they been submitted and approved YES System of Distribution TWO WIRE Voltage of Lighting 110  
 Heating — Power 110 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 — Generators, are they compound wound YES, and level compounded under working conditions YES  
 if not compound wound state distance between generators — and from switchboard — Are the generators arranged to run  
 in parallel YES 2-44KWS SETS, 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 — Have certificates of  
 test for machines under 100 kw. been supplied YES and the results found as per Rule YES.

Position of Generators IN 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 NEAR GENERATORS.

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 INTEROHM, 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 400 AMPERE TRIPLE POLE CIRCUIT BREAKER WITH TWO OVERLOAD AND A REVERSE  
 CURRENT TRIPS

and the switch and fuse gear (or circuit breakers) for each outgoing circuit DOUBLE POLE SWITCH AND FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 3  
 ammeters 3 voltmeters — synchronising devices. 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  
 EARTH LAMPS.

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES  
 make of fuses SIEMENS "ZED", are all fuses labelled YES If circuit breakers are provided for the generators, at what  
 overload do they operate TESTED AT FULL LOAD, and at what current do the reversed current protective devices operate 15% FL.  
 SET AT 150% FL.

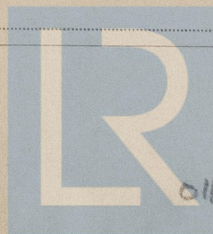
Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule YES.

Cables, are they insulated and protected as per Rule YES, if otherwise than as per Rule are they of an Approved Type —  
 state maximum fall of pressure between bus bars and any point under maximum load < 6 VOLTS, 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 No, if so, are they  
 adequately protected — Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit —

or of the "HR" type — State how the cables are supported or protected MAIN CABLES - LEAD COVERED ARMOURD AND BRAIDED  
 CLIPPED TO STEEL TRAY. ACCOMMODATION CABLES - LEAD COVERED CLIPPED TO WOOD GROUNDS.

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 —

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule YES Emergency Supply, state position  
 AUX. GENERATOR 10KWS. SITUATED IN STEERING GEAR COMPARTMENT.



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Lloyd's Register  
Foundation

011235-011243-0036 1/2



PARTICULARS OF GENERATING PLANT.

## GENERATOR CABLES.

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

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

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
LUB. OIL PURIFIER MOTOR.	1	3½	1	7-052	32 ✓	37	150	V.I.R.	L.C.A.B.
FUEL OIL PURIFIER MOTOR.	1	3½	1	7-052	32 ✓	37	132	V.I.R.	L.C.A.B.
CIRC. PUMP MOTOR SPANNER BOILER.	1	4	1	7-052	35 ✓	37	180	V.I.R.	L.C.A.B.
TURNING GEAR MOTOR.	1	10	1	19-064	78 ✓	83	162	V.I.R.	L.C.A.B.
KNEADING & MINCING MACHINE MOTOR.	1	2	1	7-036	19 ✓	24	30	V.I.R.	L.C.A.B.
CRANE MOTOR.	1	3½	1	7-052	32 ✓	37	141	V.I.R.	L.C.A.B.
SHAPING MACHINE MOTOR.	1	2	1	7-036	19 ✓	24	30	V.I.R.	L.C.A.B.
DRILLING MACHINE MOTOR.	1	1½	1	7-036	14½ ✓	24	30	V.I.R.	L.C.A.B.
LATHE MOTOR.	1	3	1	7-044	27 ✓	31	30	V.I.R.	L.C.A.B.
ACCOMM. VENT. FAN MOTORS.	2	2½	1	7-052	23 ✓	37	180	V.I.R.	L.C.A.B.
ACCOMM. VENT. FAN MOTOR.	1	2½	1	19-044	23 ✓	53	480	V.I.R.	L.C.A.B.
PANTRY HOTPLATE.	1	2Kws.	1	7-036.	182 ✓	24	42	V.I.R.	L.C.



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.

FOR AND ON BEHALF OF

MYTH BAY ELECTRIC & MECHANICAL CO. LTD.

Electrical Contractors.

Date 7<sup>th</sup> March 1951

#### COMPASSES.

FOR AND ON BEHALF OF

MYTH BAY ELECTRIC & MECHANICAL CO. LTD.

Have the compasses been adjusted under working conditions.

Builder's Signature.

Date 7<sup>th</sup> March 1951

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 "NELLY MAERSK"

Plans. Are approved plans forwarded herewith. ☒ YES. If not, state date of approval.

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 ELECTRICAL EQUIPMENT OF THIS SHIP HAS BEEN INSTALLED IN ACCORDANCE WITH THE SOCIETY'S RULES AND REGULATIONS AND THE ARRANGEMENTS ARE IN ACCORDANCE WITH THOSE SHOWN ON THE APPROVED PLANS.

THE MATERIALS USED ARE OF GOOD QUALITY AND THE WORKMANSHIP IS SATISFACTORY.

THE 15KWS. "READER" STEAM ENGINE DRIVEN GENERATOR SET 110 VOLTS - 136 AMPS - 500 RPM - 1944 DRIPPROOF CONTINUOUSLY RATED. - COMPOUND WOUND - LAURENCE SCOTT & CO SERIAL NO. 91046 IS A RECONDITIONED SET EX. ADMIRALTY.

ON COMPLETION OF INSTALLATION THE INSULATION RESISTANCE OF ALL CIRCUITS WAS ABOVE RULE REQUIREMENTS. THE GENERATORS OPERATED ON LOAD AND GOVERNING TESTS, AND THE CIRCUIT BREAKER PROTECTIVE DEVICES TESTED. ALL WITH SATISFACTORY RESULTS.

THE EQUIPMENT, AS INSTALLED IS, IN MY OPINION, SUITABLE FOR A CLASSED SHIP.

Notes sent 5/4/51

Total Capacity of Generators 113 Kilowatts.

The amount of Fee ... £ 58 : 19 : When applied for, 27 MAR 1951

Travelling Expenses (if any) £ : : When received, 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute. FRI. 4 MAY 1951

Assigned. See F.E. weekly rpt.