

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 22 FEB 1951

Date of writing Report 12-2-1950 When handed in at Local Office 19 Port of Copenhagen

No. in Survey held at Odense Date, First Survey 12-9-50 Last Survey 12-1-1951
Reg. Book. (No. of Visits 12)

on the Motor Tanker Charlotte Maersk
Built at Odense By whom built Odense Staalskibsvaerft Yard No. 112 When built 1950

Owners A/S D/S Svendborg - D/S 1912 A/S Port belonging to Fredericia
Installation fitted by Dansk Elektricitets - Kompagni When fitted 1950

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. - Radar Yes

Plans, have they been submitted and approved Yes System of Distribution 2 Wires 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, 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 2 - 44 KW - 1 off Port 1 off Starboard in engine room 1 - 20 KW upper part platform eng. 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 Port side engine room starting platform

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 Blue steel front plate, 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 11 double pole circuit breakers with overload and reverse current trips together with single pole equaliser.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole circuit breakers 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 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 1 Ohmmeter and 2 Earthing lamps

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes, make of fuses Saurey Knudsen, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 490 Amps, and at what current do the reversed current protective devices operate 50 Amps

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 - 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 "IR" type - State how the cables are supported or protected The lead covered and steel wire armoured cables are supported on trays and secured by screwed clips

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

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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.

D.E.C.

DANSK ELEKTRISKE COMPAGNI
 AKTIESELSKAB

Electrical Contractors.

Date 17-2-51.

COMPASSES.

Have the compasses been adjusted under working conditions.

Odense Staalskibsværft A/S

Builder's Signature.

Date 17-2-51.

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. 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 installation has been constructed under special survey in accordance with Rules, approved plans and Secretary's letter 25-11-50

The pump room lighting has been fitted in accordance with the plan N° E 112-04 approved in the Secretary's letter 25-11-50 and in agreement with the Owners.

The fittings are of flameproof type with the switches in the accommodation space

All material used is in accordance with rule requirements and the workmanship is good

The whole installation has been tested and examined under working conditions and found satisfactory

Noted ENK 7/3/51

Total Capacity of Generators 118 Kilowatts.

The amount of Fee ...	<u>kr 115.4</u>	:	When applied for,
			<u>17/2</u> 19.51
Travelling Expenses (if any)	<u>kr 100</u>	:	When received,
			<u>19</u>

M. Russell
 Surveyor to Lloyd's Register of Shipping.

TUES. 13 MAR 1951

Committee's Minute

Assigned See F.E. maly. rpt.

2m. 9.48.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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