

No. 16375.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

4 MAR 1958

Received at London Office

Writing Report 19 When handed in at Local Office 19 Port of Copenhagen

Survey held at Odense Date, First Survey 4-6-57 Last Survey 7-1 1958

(No. of Visits 12)

on the M.V. "LAUST MÆRSK" Tons Gross 6418.68 Net

at Odense By whom built Odense Stålskibsvarft Yard No. 141 When built 1958

owners A.P. Møller Port belonging to Copenhagen

Installation fitted by Dansk Elektricitets compagni When fitted 1958

Vessel equipped for carrying Petroleum in bulk no 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 wire Voltage of Lighting 115

Power DC or A.C., Lighting 115 Power 440 If A.C. state frequency 60

Generators, has the governing been found as per Rule when full load is thrown on and off yes Are turbine emergency governors fitted

Generators, are they compound wound, and level compounded under working conditions

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Are the generators arranged to run in parallel yes Is the compound winding connected to the negative or positive pole

Have certificates of test for machines 100 kw. and over been inspected by the Surveyors during manufacture and testing yes

Have certificates of test for machines 100 kw. been supplied and the results found as per Rule yes Position of Generators Port side engine room

Are the generators arranged to run in parallel yes Is the compound winding connected to the negative or positive pole

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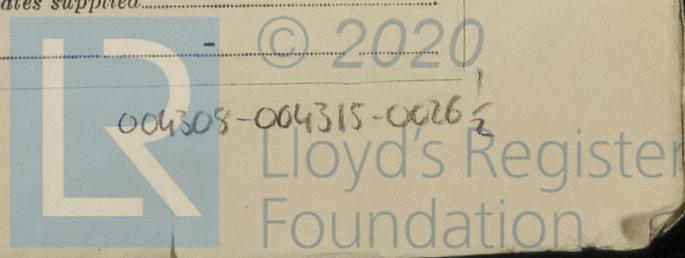
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Handwritten signature and date: 10.4.58



Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes 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

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule yes, state battery capacity in ampere hours 100 Where required to do so does it comply with 1948 International Convention

Lighting, is fluorescent lighting fitted yes If so, state nominal lamp voltage 115 and compartments where lamps are fitted in engine room, galley, pantries and alleyways

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

Searchlights, No. of one, whether fixed or portable portable, are they of the carbon arc or of the filament type filament

Heating and Cooking, is the general construction as per Rule yes, are the frames effectually earthed yes, are heaters in the accommodation of the convection type HI-press system 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 compartment yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing yes

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule yes

Lightning Conductors, where required are they fitted as per Rule yes

Ships carrying Oil having a Flash Point of 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 General Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships yes Are all cables lead covered as per Rule yes

E.S.D., if fitted state maker Kelvin Hughes location of transmitter and receiver Bridge and between frames 102 & 103

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations yes

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory yes

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	KVA RATED AT				PRIME MOVER.	
			Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.	
MAIN	3	Thomas B. Thrige	300	440	394	450	heavy oil	Burmeister & Wain
EMERGENCY	1	Dansk Akkumulator	16.9	440	22	1800	"	A/S Bukl.
ROTARY Static TRANSFORMER	1	Thomas B. Thrige	75	440/115				
	1	Transformer	12	440/115				

GENERATOR CABLES.

DESCRIPTION.	No. of	KVA	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or mm ² .	In the Circuit.	Rule.			
MAIN GENERATOR	3	300	2	2.1 x 0.15	394			VC	Lead covered & per steel plates
" EQUALISER									
EMERGENCY GENERATOR	1	16.9	1	3 x 0.01	22	32		VC	Lead covered and armoured
ROTARY TRANSFORMER: MOTOR									
" GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	KVA	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or mm ² .	In the Circuit.	Rule.			
Main switchboard to windlass	3	150	3	0.1 sq. "	110	141	100	VC	Lead covered & armd.
6 winches 7' castle deck				3x0.15 "	180	182	80	"	"
4 winches fore deck				3x0.1 "	120	141	70	"	"
2 winches amidship				3x0.1 "	120	141	60	"	"
4 winches aft. deck				3x0.1 "	120	141	60	"	"
2 winches Poop deck				3x0.06 "	90	100	80	"	"
Steering gear				4x0.06 "	42	100	100	"	"
Main light switchboard				3x0.1 "	140	141	20	"	"
Engine Vent. switchboard				3x0.06 "	98	100	20	"	"
Galley				3x0.03 "	59	64	40	"	"
Laundry				3x0.03 "	55	64	35	"	"

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or mm ² .	In the Circuit.	Rule.			
Emergency Generator to main light switchboard	3	0.01	22	32	55	VC	Lead covered & armoured
Main light switchboard							
mast lights	3	0.06		100	10	"	"
accommodation lighting amidship	3	0.03	62	64	20	"	"
" " aft.	3	0.015	31	42	80	"	"
" " forw.	3	0.01	28.7	32	80	"	"
Gyro and compass	3	2.5	10	13	20	TGBM	Lead covered
Wireless	3	4 m ²	16	16	20	"	"
Navigation	3	2.5"	10	13	20	"	"
Nautical instruments	3	4	16	16	20	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	sq. ins.		M	INSULATION.	PROTECTIVE COVERING.	
			In the Circuit.	Rule.				
Manoeuvring air compressor	2	85	3 x 0.1	110	141	20	VC	Lead covered and armd.
Lub. oil pumps	2	90	3 x 0.1	117	141	30	"	" " " "
Cooling water pumps	3	40	3 x 0.0225	52	56	30	"	" " " "
Deep tank pump	1	65	3 x 0.04	76	77	45	"	" " " "
Ballast pump	1	35	3 x 0.0225	45	56	20	"	" " " "
Bilge & fire	1	40	3 x 0.0225	52	56	10	"	" " " "
Bilge & sanitary	1	23	3 x 0.01	30	32	15	"	" " " "
Fire pump	1	40	3 x 0.0225	52	56	10	"	" " " "
Fuel oil transfer	2	23	3 x 0.0225	56	56	15	"	" " " "
Fuel oil circulating	2	1.8	3 x 0.0225	47	56	20	"	" " " "
Turning gear	1	15	3 x 0.01	24	32	40	"	" " " "
Emergency blower	1	75	3 x 0.1	91	141	20	"	" " " "

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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 ELEKTROTEKNIKKOMPAGNI

Electrical Contractors.

Date 1st Febr., 1958.

COMPASSES.

Have the compasses been adjusted under working conditions.

Odense Staalskibsværft A/S

Builder's Signature.

Date 1st Febr., 1958.

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 "LEDA MERSK"

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 and materials, opinions as to class, etc.)

The electrical installation of this vessel has been made under special survey in accordance with the Rules, approved plans and the Secretary's letters.

The Material used has been made according to the Rules and the Workmanship is good.

On completion the installation has been listed and examined under working condition and found satisfactory.

Total Capacity of Generators 917 Kilowatts.

The amount of Fee ... kr. 2957,- : : When applied for, 23/1 1958

Entered in Cpn.R.F.B.18/1/58

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

A. M. Jensen
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 11 APR 1958

Assigned See Rpt. 1.

2m.455—Transfer. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

Yes
+ ad
6-3-58



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