

Rpt. 13.

No. 2023

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2-0611952

Received at London Office

Date of writing Report 8th Sept. 19 52 When handed in at Local Office 19 Port of H A M B U R GNo. in Survey held at H A M B U R G Date, First Survey 1st Aug. 52 Last Survey 26th August 19 52
Reg. Book. (No. of Visits 12)S 95289 on the M.V. "M O S O I L" Tons { Gross 11.348
Net 6.713Built at Hamburg By whom built Deutsche Werft A.G., Yard No. 640 When built 1952Owners Compania de Navegaciona Martora, S.A. Port belonging to Panama CityInstallation fitted by A.E.G., Schiffbau, Hamburg When fitted 1952Is 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 yesPlans, have they been submitted and approved yes System of Distribution 2 wire insulated Voltage of Lighting 110Heating 220 Power 220 D.C. or A.C., Lighting DC Power DC 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 fittedwith a trip switch - Generators, are they compound wound yes, and level compounded under working conditions yes,Are the generators arranged to run in parallel yes Is the compound winding connected to the negative or positive pole negativeHave machines 100 kw. and over been inspected by the Surveyors during manufacture and testing yes Have certificates of test for machinesunder 100 kw. been supplied and the results found as per Rule yes Position of Generators engine room, port inboard,port outboard, port aft, starboard in U.T.D. (steam), port aft in U.T.D. (Emergency)is the ventilation in way of generators satisfactory yes are they clear of inflammable material and protected from mechanical injury anddamage from water, steam and oil yes Switchboards, where are main switchboards placed engine room, lower tween deckport aft (main) and engine room, upper tween deck, port aft (auxiliary switchboard)

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 generators: dead front construction circuits: marble (A.E.G.), if of synthetic insulatingmaterial is it an Approved Type -, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom asper Rule - Is the construction as per Rule, including locking of screws and nuts yes Description of Main Switchgearfor each generator and arrangement of equaliser switches triple pole linked circuit breakers with O/C releases intwo poles and R/C release in one pole, third pole used for equalizer.Aux. generator: double pole linked circuit breaker with O/C release in both polesand the switch and fuse gear (or circuit breakers) for each outgoing circuit double pole linked switch with fuse oneach poleAre compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 7ammeters 4 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse currentprotection devices connected on the pole opposite to the equaliser connection yes Earth Testing, state means provided 3 Ohm metres1 main swbd., 2 aux. swbd. Preference Tripping, state if provided no, and tested -Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yesmake of fuses Siemens, are all fuses labelled yes If circuit breakers are provided for the generators, at whatoverload do they operate 650 Amps., and at what current do the reverse current protectivedevices operate 70 Amps. Cables, are they insulated and protected as per Rule yes,if otherwise than as per Rule are they of an Approved Type yes, state maximum fall of pressure between bus bars and any pointunder maximum load 5 volts. 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 - Statetype of cables (if in conduit this should also be stated) in machinery spaces MK Marine, galleys MK Marineand laundries - State how the cables are supported or protected suitably clipped on cabletrays; in pump rooms and bridge tween deck led in conduit pipesAre all lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertightbulkheads provided with deck tubes or watertight glands yes, where unarmoured cables pass through beams, etc., are the holeseffectively bushed yes Refrigerated chambers, are the cables and fittings as per Rule -Have refrigeration fan motors been constructed under survey - and test certificates supplied -Are the motors accessible for maintenance at all times -

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

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	3	A.E.G. (Lloyd Dynamo Werke)	130	230	565	500	4 SC5A	M.A.N.
Auxiliary	1	A.E.G. (Lloyd Dynamo Werke)	80	230	350	400	5 cyl.	
EMERGENCY ...	1	Hansa Motoren	30	230	136	1000	3 cyl. 4SC5A	Deutsche Werft A.G.
ROTARY TRANSFORMER	2	"	30	110	260	1450	el. motor	Bohn & Kähler, Kiel Hansa Motoren, Hamburg

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) m	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area of No. and Dia. of Strands sq. mm. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	3	130	3	300	565 /	945	20+38+33	Rubber	LC & metal braided
" " EQUALISER	3		2	185	-	470	10+19+17	"	"
Auxiliary Generator	1	80	2	300	350 /	630	78	"	"
EMERGENCY GENERATOR	1	30	1	150	136 /	205	15	"	"
MOTARY TRANSFORMER: MOTOR	2	38	2	95	180 /	180	12+15	"	"
" " GENERATOR...	2	30	2	150	260 /	410	12+15	"	"

[illegible]

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return $\frac{1}{2}$ in).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. mm. or sq. mm.	In the Circuit.	Rule.			
Wireless	1	16	35	49	246	Rubber	LC & metal braided
Cables to Distrib. Boards for Power (220V)							
DB 3 & 2	1	95	125	150	204	"	"
DB 3 to DB 2	1	4	15	22.5	11	"	"
DB 5 (ventilators)	1	70	125	125	112	"	"
DB 5 (heating)	1	10	35	38	114	"	"
DB 6	1	35	80	78	52	"	"
DB 9 (workshop)	1	16	35	49	20	"	"
Galley	1	120	160	175	64	"	"
Baking Oven	1	25	60	63	74	"	"
Cables to DB for Lighting (110 V)							
Navigation Lights	1	2.5	10	15.5	244	"	"
DB 1 - 2 - 3	1	150	160	205	204	"	"
DB 3 to DB 2	1	35	80	78	11	"	"
DB 2 to DB 1	1	2.5	10	15.5	17	"	"
DB 7 & 4	1	25	60	63	58	"	"
DB 7 to DB 4	1	25	60	63	3	"	"
DB 8 & 5	1	35	80	78	87	"	"
DB 8 to DB 5	1	35	80	78	3	"	"

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	MOTOR CABLES.						
From Main Switchboard:									
Steering engine I	1	16	1	35	64	72		Rubber	LE & metal braided
Steering engine II	1	16	1	35	64	80		"	"
Fwd. air compressor	1	72	2	150	410	17		"	"
Aft air compressor	1	72	2	150	410	27		"	"
Sea Circulating pump I	1	60	2	120	350	55		"	"
Sea Circulating pump II	1	60	2	120	350	55		"	"
Fresh water cooling pump	1	60	2	120	350	49		"	"
Fwd. lub. oil pump	1	40	1	185	235	70		"	"
Aft lub. oil pump	1	40	1	185	235	68		"	"
Fire extinguishing pump	1	40	1	185	235	110		"	"
Bilge pump	1	20	1	70	125	108		"	"
O.F. transfer pump	1	20	1	70	125	40		"	"
Pt. La Mont Circulating pump	1	1.5	1	2.5	15.5	53		"	"
Stbd. La Mont Circulating pump	1	1.5	1	2.5	15.5	54		"	"

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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.

A.E.G. signature below

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions.

DEUTSCHE WERFT
AKTIENGESellschaft

ALLGEMEINE ELEKTRICITÄTS-GESELLSCHAFT

SCHIFFBAU

Builder's Signature.

Date

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.

" MOSTANK "

Plans. Are approved plans forwarded herewith.

no

If not, state date of approval.

22.4.52

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 equipment of

this vessel has been installed under Special Survey in accordance with the approved plans and the Secretary's letters. The material and workmanship are good. On completion the equipment was tried under working conditions and found satisfactory. This equipment is, in my opinion, suitable for a classed vessel.

Total Capacity of Generators

500

Kilowatts.

The amount of Fee ...

£ 183. 0.0 :

When applied for,

19

Travelling Expenses (if any) £

6. 0.0 :

When received,

19

W. L. L. L.

Surveyor to Lloyd's Register of Shipping.

FRI. 24 OCT 1952

Committee's Minute

Assigned

See F.E. - msky rph.



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