

25 NOV 1955

Rpt. 13.

No. 515

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 11-11-1955 When handed in at Local Office 19-11-1955 Port of NANTES

No. in Survey held at SAINT NAZAIRE Date, First Survey 4-7-55 Last Survey 8-10-1955

(No. of Visits 9)

33471 Supp. on the SINGLE SC. S.S. "SOCARDIA"

Tons { Gross 20708

Net 10417

When built 1955

Built at SAINT NAZAIRE By whom built CHANT. DE SAINT NAZAIRE (PENHOET) and No. Q15

Owners SOCIETE MARITIME SHELL Port belonging to LE HAVRE

Installation fitted by CHANTIER & ATELIERS DE SAINT NAZAIRE (PENHOET) When fitted 1955

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. YES Radar YES

Plans, have they been submitted and approved YES System of Distribution 3 PHASE 3 WIRE } INSULATED Voltage of Lighting 115/24

Heating 440/115 Power 440/115 D.C. or A.C., Lighting AC Power AC If A.C. state frequency 60 CPS.

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 YES

Generators, are they compound wound A.C., 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 YES

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing YES Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule YES

Position of Generators TUBO ALTERNATORS:- ST^D SIDE

E.R. FLAT. OIL ENGINE DRIVEN ALTERNATOR - PORT SIDE E.R. FLAT.

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 FW^D PART OF ER ON FLAT

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 DEAD FRONT CONSTRUCTION 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 YES 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 3 POLE LINKED CIRCUIT BREAKER WITH OVERLOAD TRIPS

8 UNDER VOLTAGE RELEASE ACTIVATED BY REVERSE POWER RELAY

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 3 POLE LINKED CIRCUIT BREAKER WITH OVERLOAD TRIPS

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 18

ammeters 7 voltmeters 2 synchronising devices For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection YES

Earth Testing, state means provided EARTH LAMPS

RESISTANCES OR 3 SP TRANSFORMERS WITH RELAYS Preference Tripping, state if provided YES and tested YES

Switches, Circuit Breakers and Fuses, are they as per Rule YES are the fuses an Approved Type YES

make of fuses CEHES & STAPPER are all fuses labelled YES If circuit breakers are provided for the generators, at what overload do they operate 150%

and at what current do the reverse current protective devices operate 3% IN 15 SECS

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 point under maximum load > 6% volts

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 YES if so, are they adequately protected YES State type of cables (if in conduit this should also be stated) in machinery spaces L.C.B.M.B. & PYROTEMA

galleys L.C.B.M.B.

and lavatories L.C.B.M.B.

State how the cables are supported or protected MAINS:- SUPPORTED BY WOOD CLEATS

LANES:- STEEL CHANNELS UNDER F&A GANGWAYS MACHY SPACES:- CLIPPED TO ANGLE IRON/GALV. PERFORATED PLATING

CLIPPED TO STRUCTURE Acc^{3N}:- CLIPPED TO SUPPORTS, WOODWORK OR GALV. PERFORATED PLATING

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 DOMESTIC

Have refrigeration fan motors been constructed under survey YES and test certificates supplied YES

Are the motors accessible for maintenance at all times YES



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008472-008480-0121

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

DESCRIPTION OF GENERATOR.		No. of	MAKER.	RATED AT				PRIME MOVER.	
				Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	2	MAISON BREGUET	550	450	883	1200	ST. TURB.	MAISON BREGUET.	
	1	W.H. ALLEN	150	450	240	514	01- ENG.	RUSTON HORNSBY	
EMERGENCY ... ROTARY TRANSFORMER									

[illegible][illegible]

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus cable feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. <small>(sq. in. or sq. mm.)</small>	In the Circuit.	Rule.			
NAY. LTG FROM MWHPS S.B.	1	2 x 3.5	4	16	28	VC	LCB MB.
STORES ETC.	"	3 x 1.4	30	53	8	"	"
ECGLE & FW ^o PUMP ROOM	1	3 x 22	15	70	90	"	"
SIGNAL COLUMN	1	2 x 22	15	100	135	"	"
GYRO COMPASS	1	3 x 5.5	9	24	27	"	"
DOM. FRIG. & ICED WATER	1	3 x 5.5	10	24	23	"	"
MDSHPS PANTRY	1	3 x 5.0	80	118	12	"	"
AUTO PILOT	1	3 x 5.5	14	24	23	"	"
TRANS. 1 x 800 VA 115/24 NDSHP SOCKETS	1	2 x 3.5	8	16	10	"	"
" 1 x 1000 VA 115/24 ECGLE	1	3 x 22	15	70	90	"	"
CREW PANTRY FROM AFT S.B.	1	3 x 14	40	53	51	"	"
OFFICERS " " " "	1	3 x 14	40	53	30	"	"
DOM. FRIG. & ICED WATER " "	1	3 x 3.5	15	16	10	"	"
UPPER DK LTG P	1	3 x 5.5 10	30	44	40	"	"
" " S	1	3 x 10	30	44	33	"	"
POOP " P	1	3 x 10	23	44	12	"	"
" " S	1	3 x 10	23	44	10	"	"
BOAT LIGHTS	1	3 x 10	23	44	27	"	"
AFT PP. RM LTG	1	3 x 3.5	5	16	14	"	"
TRANS. 1 x 800 VA 115/24 SOCKETS	1	2 x 3.5	8	22	15	"	"
B.R. LTG P FROM AFT. S.B.	1	3 x 3	15	37	30	Pyrotenax	
ER " P	1	3 x 10	30	44	46 36	VC.	LCB MB.
BR " S	1	3 x 8	15	37	30	Pyrotenax.	
ER " S	1	3 x 10	30	44	42	VC.	LCB MB
TURBO ALT. HTG.	1	3 x 10	30	44	33	"	"
EMERG ^y LTG. TRANS. 1 x 1 KVA 115/24 "	1	2 x 5.5	10	24	47	"	"
TRANS. 1 x 2 KVA 115/24 SOCKETS "	1	2 x 8.5	19	50	45 40	"	"
GALLEY PANEL	1	3 x 14	40	53	59	"	"
ALARM BOARD.	1	2 x 3.5	5	22	46	"	"

DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).								
DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet ^{meters}).	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.				
MOSHP. S.B. FROM MAIN SWITCHBOARD.	1	3x95	130	180	110	V.C.	L.C. & M.B.	
AFT. S.B.	2	3x75	250	2x155	25	"	"	
GROUP STARTERS P.	4	3x150	730	4x242	8	"	"	
" " S	4	3x150	670	4x242	8	"	"	
B.L.R. RM. AUX.	1	3x40	70	101	35	"	"	
MOSHP. VENT. S.B. FROM MOSHP. S.B.	1	3x8	20	35	20	"	"	
AFT. VENT. S.B.	1	3x22	50	70	10	"	"	
GALLEY S.B.	1	3x40	75	101	53	"	"	
LAUNDRY S.B.	1	3x5.5	15	24	55	"	"	
DOM. FRIG. S.B.	1	3x22	45	70	35	"	"	
AFT. POWER S.B.	1	3x5.5	15	24	55	"	"	
E.R. AUX. P. S.B. FROM GROUP STARTERS	1	3x30	60	84	22	"	"	
" " S. S.B.	1	3x30	60	84	27	"	"	
E.B.A.R. VENTS.	1	3x95	130	180	30	"	"	
E.R. WKSHP. APPLIANCES	1	3x5.5	20	24	25	"	"	
SHORE CONNECTION	1	3x150	200	242	20	"	"	
MOSHP. TRANS. FROM MOSHP. S.B. 3x15 KVA 440/115	1	3x30	62	84	5	"	"	
AFT. " " MAIN SWB 3x25 KVA 440/115	1	3x60	104	133	25	"	"	
NAY. LTG. " " " 1x800VA. 440/115	1	2x3.5	25	22	10	"	"	
RADAR FROM MOSHP. D.B.	1	3x5.5	2.5	24	32	"	"	
WIRELESS TRANS. " " " 6 KVA.	1	3x5.5	10	24	28	"	"	
MOSHP. S.B. 115V FROM MOSHP. TRANS.	2	3x75	225	2x155	5	"	"	
NAY. INSTRUMENTS FROM " S.B.	1	3x5.5	21.8	24	28	"	"	
WIRELESS " " "	1	3x805.5	12	24	30	"	"	
EXT. LTG. " " "	1	3x30	37	84	28	"	"	
UPPER BRIDGE LTG. " " "	1	3x5.5	10	24	28	"	"	
LOWER BRIDGE LTG. " " "	1	3x10	20	44	17	"	"	

ALL IMPORTANT MOTORS TO BE ENUMERATED.			No.	B.H.P.	MOTOR CABLES.							
STEERING GEAR.	2	56	1	3x50	84	118	45/50	VC.	LC 8 M.B.			
MAIN CIRC. PP	2	90	1	3x95	111	180	14/18	"	"			
" EXT. PP.	2	43	1	3x30	54	84	17	"	"			
AUX. CIRC.	2	20	1	3x8	27	35	30/28	"	"			
" EXT.	2	4.5	1	3x3.5	6.5	16	30/28	"	"			
FORCED DRAUGHT FANS	2	106/1	1	2x22/	121/	201/	35/26	"	"			
		135	1	1x22	46	70		"	"			
BILGE, BALLAST & G.S PPS	2	31	1	3x22	37.6	70	15/16	"	"			
L.O PPS	2	50	1	3x60	62	133	25/34	"	"			
DRAIN TRANSFER PP.	2	25	1	3x10	28.2	44	15/20	"	"			
F.O PRESS. PP.	2	13	1	3x5.5	19	24	68/86	"	"			
TURNING GEAR	1	15	1	3x8	21.5	35	35	"	"			
CARGO COND ^R CIRC. PP.	1	65	1	3x60	81.5	133	21	"	"			
FIRE & G.S. PP.	1	35	1	3x22	42.5	70	18	"	"			
EVAP PPS	2	15.5	1	3x5.5	20.2	24	24	"	"			
EVAP. DISTILLED WATER PP	2	3.5	1	3x3.5	5.4	16	13/24	"	"			
" S.W. PP.	2	1	1	3x3.5	1.5	16	15	"	"			
OIL SEPARATORS	2	2.5	1	3x3.5	3.6	16	17/18	"	"			
B.R. VENT. FANS	2	11	1	3x3.5	14	16	15/25	"	"			
E.R " "	2	15	1	3x5.5	19	24	25	"	"			
E.R " "	2	17	1	3x5.5	20.8	24	15/25	"	"			
F.W. PPS	2	1.5	1	3x3.5	2.5	16	19/12	"	"			
SAN PPS	2	1.5	1	3x3.5	2.5	16	12	"	"			
AFT ACC. VENT FANS	1	1	1	3x3.5	2	16	20	"	"			
" " " "	1	1.5	1	3x3.5	2.5	16	20	"	"			
" " " "	1	3.5	1	3x3.5	5.2	16	15	"	"			
" " " "	1	10	1	3x5.5	15	24	15	"	"			
N/SHPS " " "	2	1	1	3x3.5	1.5	16	15	"	"			
" " " "	1	1.5	1	3x3.5	2.5	16	15	"	"			
" " " "	1	3.6	1	3x3.5	5.4	16	15	"	"			
" " " "	1	4	1	3x3.5	6	16	15	"	"			
N/SHPS F.W. PP.	1	1.5	1	3x3.5	2.5	16	20	"	"			
" SAN.	1	1.5	1	3x3.5	2.5	16	23	"	"			
HOSPITAL AIR CONDITIONING.	1	3.5	1	3x3.5	5.4	16	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.



Electrical Contractors.

Date 19.11.55

COMPASSES.

Have the compasses been adjusted under working conditions.

YES.



Builder's Signature.

Date 19.11.55

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 SANDA - SIDORA.

Plans. Are approved plans forwarded herewith.

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 constructed & installed under Special Survey in accordance with approved plans, rule requirements & Secretary's letters.

The quality of materials & workmanship is good.

The electrical installation has been examined under full working conditions (including simulation test) with satisfactory results.

The electrical installation is in my opinion eligible to be classed as part of the machinery with the notation of + L.M.C. 10-55.

Total Capacity of Generators 1250 Kilowatts.

The amount of Fee £ 262.200

When applied for,

19

When received,

19

Travelling Expenses (if any) £ 4.100

Surveyor to Lloyd's Register of Shipping.

[Signature]

FRIDAY 9-DEC 1955

Committee's Minute

Assigned

[Signature]