

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

30 JUL 1955

Date of writing Report 9-7 1955 When handed in at Local Office 26-7 1955 Port of NANTES

No. in Survey held at SAINT NAZAIRE Date, First Survey 10-2-55 Last Survey 22-6-1955

Reg. Book. (No. of Visits 9)

Supp 91109 on the SINGLE SCREW S.S. "SIDORA" Tons { Gross 20,700
Net 10,420

Built at SAINT NAZAIRE By whom built CH. BAT. DE SAINT NAZAIRE (PENHOET) Yard No. P.15 When built 1955

Owners SOCIETE MARITIME SHELL Port belonging to LE HAVRE

Installation fitted by CHANTIER BATIERS 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 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 AC, 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 TURBO ALTERNATORS - STAR

SIDE E.R. FLAT OIL ENGINE 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 ON FLAT - FW⁹ PART OF E.R.

CENTRALLY YES

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 TURBO SETS - 3 POLE LINKED CIRCUIT BREAKER WITH OVERLOAD TRIPS

OIL ENGINE SET - 3 POLE LINKED CIRCUIT BREAKER WITH OVERLOAD TRIPS ALL WITH UNDER VOLTAGE RELEASE ACTUATED 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 NO, and tested YES

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES make of fuses CERES & STAPPER, are all fuses labelled YES If circuit breakers are provided for the generators, at what overload do they operate 150% OVERLOAD, and at what current do the reverse current protective devices operate 3% IN 1.5 SECONDS 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 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 YES, if so, are they adequately protected YES State type of cables (if in conduit this should also be stated) in machinery spaces LEAD COVERED & METAL BRAIDED galleys NO and laundries NO State how the cables are supported or protected MAINS ON FW⁹ & AET GALLEYS - SUPPORTED BY WOOD CLEATS SECURED TO STEEL CHANNELS MACH. SPACES - CLIPPED TO ANGLE IRON SUPPORTS OR CLIPPED ON SUPPORTS ATTACHED TO STRUCTURE & OR ON GALVANISED PERFORATED PLATING. ACCOMMODATION - CLIPPED TO SUPPORTS, GAL. PERFORATED PLATING OR WOODWORK

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



© 2021

Lloyd's Register
Foundation

008634-008640-0120 1/3

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

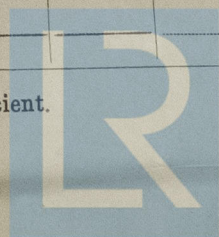
DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return-feet). METRES.	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MIDSHIPS SB FROM MAIN SWITCHBOARD	1	✓ 3x95	130	180	110	VC.	L.C. & METAL BRAIDED
AFT SB " " "	2	✓ 3x75	250	2x155	25	"	"
BLR ROOM AUXS. " " "	1	✓ 3x40	70	101	35	"	"
GROUP STARTERS P " " "	4	✓ 3x150	730	4x242	8	"	"
" " S " " "	4	✓ 3x150	670	4x242	8	"	"
MDSHPS VENT S.B. " MIDSHIPS S.B.	1	✓ 3x8	20	35	20	"	"
AFT VENT SB " AFT S.B.	1	✓ 3x22	50	70	10	"	"
GALLEY SB " " "	1	✓ 3x40	75	101	53	"	"
LAUNDRY SB " " "	1	✓ 3x5.5	15	24	55	"	"
DOM. FRIG SB " " "	1	✓ 3x22	45	70	55	"	"
AFT POWER SB " " "	1	✓ 3x5.5	15	24	55	"	"
ER. AUXS P " GROUP STARTER	1	✓ 3x30	60	84	22	"	"
" " S " " "	1	✓ 3x30	60	84	27	"	"
ENG. & BR VENTS " " "	1	✓ 3x95	130	180	30	"	"
ER. WORKSHOP APPLIANCES " " "	1	✓ 3x5.5	20	24	25	"	"
SHORE CONNECTION.	1	✓ 3x150	200	242	20	"	"
MDSHPS TRANSFORMER FROM MDSHPS S.B.	1	✓ 3x30	62	84	5	"	"
3x25 KVA 440/115V.	1	✓ 3x3.5					
NAV. LTO TRANSFORMER FROM MAIN SWITCHBOARD	1	✓ 3x3.5	25	(16)	(10)	"	"
1x800 KVA. 440/115V.	1						
AFT TRANSFORMER FROM MAIN SWITCHBOARD.	1	✓ 3x60	104	133	25	"	"
3x25 KVA. 440/115V.	1						
RADAR FROM MIDSHIPS S.B.	1	✓ 3x5.5	2.5	24	32	"	"
WIRELESS TRANS. (6KVA) FROM MDSHPS D.B.	1	✓ 3x5.5	10	24	28	"	"
MDSHPS S.B. FROM MDSHPS TRANSFORMER.	2	✓ 3x75	225	2x155	5	"	"
NAV. INSTRUMENTS " MDSHPS S.B.	1	✓ 3x5.5	21.8	24	28	"	"
WIRELESS " " "	1	✓ 3x5.5	12	24	30	"	"

CONT'D ON RPT. 13 (CONT'D)

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
STEERING GEAR.	2	56	✓	1	3x50	84	118	45/50	VC. LEAD COVERED METAL BRAIDED
MAIN CIRC. PP.	2	90	✓	1	3x95	111	180	14/18	"
" EXT. PP.	2	43	✓	1	3x30	54	84	17	"
AUX. CIRC. PP.	2	20	✓	1	3x8	27	35	33/38	"
" EXT PP.	2	4.5	✓	1	3x3.5	6.5	16	30/38	"
FORCED DRAFT FANS	2	106	✓	1	3x120	121	210	35/36	"
		35			3x22	46	70		"
BILGE BALLAST & G.S. pp.	2	31	✓	1	3x22	37.6	70	15/16	"
L.O. PP.	2	50	✓	1	3x60	62	133	25/34	"
DRAIN TRANSFER PP.	2	25	✓	1	3x10	28.2	44	15/20	"
F.O. PRESSURE pp.	2	13	✓	1	3x5.5	19	24	68/86	"
TURNING GEAR	1	15	✓	1	3x8	21.5	35	35	"
CARGO CONDENSER CIRC. pp.	1	65	✓	1	3x60	81.5	133	21	"
FIRE & G.S. pp.	1	35	✓	1	3x22	43.5	70	18	"
EVAPORATOR pp.	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	"
" SW. 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	"
ER " "	2	15	✓	1	3x5.5	19	24	25	"
ER " "	2	17	✓	1	3x5.5	20.8	24	15/25	"
F.W. pp.	2	1.5	✓	1	3x3.5	2.5	16	10/12	"
SAN. pp.	2	1.5	✓	1	3x3.5	2.5	16	12	"
AFT. ACC. VENT FANS	1	1	✓	1	3x2.5	2	16	20	"
" " " "	1	1.5	✓	1	3x2.5	2.5	16	20	"
" " " "	1	3.5	✓	1	3x2.5	5.2	16	15	"
" " " "	1	10	✓	1	3x5.5	15	24	15	"
MDSHPS. ACC. VENT FANS	2	1	✓	1	3x2.5	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	"
MDSHPS 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	30	"

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



© 2021

Lloyd's Register Foundation

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulators and Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing



[Signature]

Electrical Contractors.

Date 25.7.55

COMPASSES.

Have the compasses been tested under working conditions.

YES



[Signature]

Builder's Signature.

Date 25.7.55

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"

Plans. Are approved plans forwarded herewith.

NO

If not, state date of approval.

13.10.53, 29.12.53, 4.5.54, 5.1.25.1.2.2.9.4, 28.5.15.6.9.8.30.8.14.12.54

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 letter.

The quality of workmanship & materials is good.

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

The electrical installation is in my opinion eligible to be classed as part of the machinery with the notation + M.C. 605.

Total Capacity of Generators 1250 Kilowatts.

The amount of Fee ... £ 262.200.:

When applied for,

19

Travelling Expenses (if any) £ 4.000.:

When received,

19

[Signature]

Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

FRIDAY - 9 SEP 1955

Assigned See Rpt. 4.

Im. 154. - Transfer. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)



© 2021

Lloyd's Register Foundation