

31 OCT 1960

No. 50389

Rpt. 13

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 13-10-1960 When handed in at Local Office 19 Port of ROTTERDAM

No. in Survey held at Alblasterdam Date, First Survey 13-2-1960 Last Survey 23-9-1960
Reg. Book (No. of Visits 12)

1/90752 on the m.t. "CUTRAL CO" ex "P.S. GERBRANDY" Tons { Gross Net

Built at Alblasterdam By whom built Verolme's United Ship Yards Yard No. 633 When built 1960.

Owners Yacimientos Petroliferos Fiscales Port belonging to Buenos Aires

Installation fitted by N.V. Rotterd. Electriciteits Mij. v.h. H. Croon & Co. When fitted 1960.

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 double pole insulated Voltage of Lighting 220

Heating 220 Power 220 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

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

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 diesel generators ps;

centre&stbd. side floorlevel E.R.; Steam generator on stbd. E.R. aft floorlevel.

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. 1st platform E.R. forw.

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 type, 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 Triple pole C/B's with third pole as equaliser

connection, U.V.; O.L. and reverse current relays

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. double pole switches and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. yes Instruments on main switchboard 5

ammeters 3 voltmeters -- 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 Preference Tripping, state if provided +10 % F.L.C., and tested. yes

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

make of fuses HH & Siemens, are all fuses labelled. yes If circuit breakers are provided for the generators, at what

overload do they operate 125 % F.L.C. + time lag and 200 % direct and at what current do the reverse current protective

devices operate - 10 % F.L.C. 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 under 6% volts. 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. yes, if so, are they adequately protected. yes State

type of cables (if in conduit this should also be stated) in machinery spaces Butyl LC PVC sh., galleys Bu LC PVC sh. &

and laundries Bu LC PVC sh. & MICC. State how the cables are supported or protected VIR LC PVC sh.

Machinery spaces: clipped to steel trays or in pipe.

Accommodation spaces: clipped to wooden grounds or in PVC conduit.

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. --

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

Are the motors accessible for maintenance at all times. --



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Lloyd's Register
Foundation

012711-012715-012716

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

31 OCT 1950

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 sq. mm.	In the Circuit	Rule			
Power Distr. Fuse box E.R.	1	1	50	112	169	43	Bu.	LC.PVC.sheathed
" " " " E.R.	2	1	35	88	134	70	"	" " "
" " " " E.R.	3	1	25	76	108	65	"	" " "
" " " " E.R.	4	1	50	80	169	48	"	" " "
" " " " B.R.	5	1	70	128	212	73	"	" " "
" " " " Refr. plant	6	1	16	48	84	74	"	" " "
" " " " Workshop	7	1	6	12	38	83	"	" " "
" " " " Vent. ER+BR	8	1	70	148	212	84	"	" " "
" " " " Ventilation	9	1	35	81	134	90	"	" " "
" " " " Catering Dep. 10+	1	1	35	79	134	74	"	" " "
" " " " Catering Dep. 13	1	1	6	16	38	53	"	" " "
Lighting D.F.Box Bridge--+Poop--+								
" " " " Maindeck PS E1, E2, E3	1	1	10	39	63	48	"	" " "
" " " " Naut. instr. B.	1	1	6	24	38	73	"	" " "
" " " " forecastle F	1	1	25	27	108	124	"	" " "
" " " " E.R. port G1+G2	1	1	10	32	63	90	"	" " "
" " " " Radio	1	1	16	25	84	70	"	" " "
" " " " Bridge--+Poop--+ main deck stbd. D1+D2+D3	1	1	10	34	63	32	"	" " "
" " " " Nav. A	1	1	2.5	1.5	15.5	75	VIR	LC.PVC.sheathed
" " " " Boatd.+Nav.Br.deck C	1	1	10	41	63	53	Bu.	LC.PVC.sheathed
" " " " E.R. stbd. H1+H2	1	1	10	32	63	57	"	" " "
" " " " Gyro + Aut.pilot	1	1	6	5	38	50	"	" " "
" " " " Radar	1	1	6	7	38	29	"	" " "
" " " " Shore connection	1	1	95	225	257	53	"	" " "
" " " " Welding equipment	1	1	25	89	108	49	"	" " "

MOTOR CABLES

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	B.H.P.						
Ballast pump	1	30	1	35	115	134	75	Bu. LC.PVC.sheathed.
L.O. pump	3	35	1	50	130	169	37	" " " "
Steering gear	2	20	1	16	79	84	144	" " " "
Fresh coolingw. pumps	2	26	1	25	100	108	70	" " " "
Saltcoolingw. pumps	2	26	1	35	100	134	68	" " " "
F.O. transfer pump	1	23	1	25	87	108	50	" " " "
Saltw.coolingw.p.aircoolers	1	17	1	16	65	84	86	" " " "
Compr. air cond.	1	55	1	70	205	212	80	" " " "
Gen. service pump	1	30	1	35	115	134	92	" " " "
From P.D.F.B. 1 to:								
Diesel oil daily servicep.	1	4	1	4	16.3	29	32	" " " "
Salt+freshw. hydr. pump	2	4.5	1	4	17.8	29	24	" " " "
L.O. purifier	1	7	1	6	27.5	38	28	" " " "
Hotw. circ. p.	1	0.33	1	1.5	1.65	9.5	20	VIR LC.PVC.sheathed
From P.D.F.B. 2 to:								
Diesel oil purifier	1	2.5	1	2.5	10.3	15.5	10	" " " "
" " preheater	1	12 KW	1	16	55	84	24	BU. LC.PVC.sheathed
Seacoolingw.pump air cond.	1	10	1	6	39.5	38	43	" " " "
" " " " refr. plant	1	1	1	1.5	4.5	9.5	25	VIR " " "
From P.D.F.B. 3 to:								
Fuelvalve coolingw. pump	2	3	1	2.5	12.5	15.5	30	" " " "
Harbourcoolingw. pump	1	6	1	4	23.6	29	11	Bu. LC.PVC.sheathed
Turning gear	1	12	1	10	48	63	21	" " " "
From P.D.F.B. 4 to:								
H.O. purifier & calorifier	3	7	1	6	27.5	38	17	" " " "
F.O. circ. pumps	2	2.5	1	2.5	10.4	15.5	26	VIR LC.PVC.sheathed
From P.D.F.B. 5 to:								
Boiler fans	2	10	1	6	39	38	156	Bu. LC.PVC.sheathed
" burners	2	5 KW	1	6	22.7	38	104	" " " "
Burneroil pumps	2	1.5	1	2.5	6.8	15.5	60	VIR LC.PVC.sheathed
Watch fire fans +oilpumps	4	0.25	1	1.5	1.3	9.5	40	" " " "

NOTE.—Use Rpt. 43 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.

N.V. Rotterdamsche Electriciteits Mij.
v/h H. CRON & Co.

DIR

Electrical Contractors.

Date

19.10.60

COMPASSES

Have the compasses been adjusted under working conditions

yes

Verolme Machinefabriek N.V.

Oostdijk 29 - IJsselmonde

C. Balder's Signature.

Date

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

no

If not, state date of approval

Secretary letter 7-4-1960
and 31-8-1960

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 conformity with the Society's Rules and Regulations and in accordance
with the Secretary's letter and the approved plans or equivalent thereto.
The materials used are of a good quality and the design and workmanship are
good.

On completion the equipment has been tried out under full working conditions
and found satisfactory.

This equipment is in my opinion suitable for a classed vessel.

Total Capacity of Generators 660 Kilowatts.

The amount of Fee

... fl. 1215

When applied for,

19

When received,

19

Travelling Expenses (if any)

fl. 85

Surveyor to Lloyd's Register of Shipping
P.N. Nooteboom.

Committee's Minute

FRIDAY - 2 DEC 1960

Assigned

See Rpt. 1