

# REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

26 MAY 1960

Date of writing Report 29.1.1960. When handed in at Local Office 19. Received at London Office

No. in Survey held at Flushing Reg. Book 42373 on the m.s. "No. 297" Date, First Survey 17.5.1956 Last Survey 1.3.1960. (No. of Visits 30)

Built at Flushing By whom built N.V. Kon. Mij. "De Schelde" Card No. 297 When built 1959/60.

Owners "N.V. tot afwikkeling van Shipping Port belonging to Development Corporation project"

Installation fitted by van Rietschoten &amp; Houwens N.V.

Is vessel equipped for carrying Petroleum in bulk no. Is vessel equipped with D.F. yes E.S.D. yes Gy.C. yes Sub.Sig. no Radar yes

Plans, have they been submitted and approved yes System of Distribution 2-Wire system D.C. Voltage of Lighting 220 D.C.

Heating -- Power 220 D.C. D.C. or A.C. Lighting -- Power -- 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

er of 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 pole

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

nder 100 kw. been supplied and the results found as per Rule yes Position of Generators Engine room floor at

portside

the ventilation in way of generators satisfactory yes are they clear of inflammable material and protected from mechanical injury and

amage from water, steam and oil yes Switchboards, where are main switchboards placed Engine room platform deck

at portside

re they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

eam and oil yes, what insulation is used for the panels dead front type switchboard, if of synthetic insulating

aterial is it an Approved Type yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

er Rule -- Is the construction as per Rule, including locking of screws and nuts yes Description of Main Switchgear

or each generator and arrangement of equaliser switches 3-pole autom. circuit breakers with overload- reverse

current relay and no-volt coil

ed the switch and fuse gear (or circuit breakers) for each outgoing circuit 2-pole knife switches with H.R.C. fuses

2-pole rotary switches with Zed type fuses

re compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 9

mmeters 3 voltmeters 3 synchronising devices. For compound machines in parallel are the ammeters and reverse current

rotection devices connected on the pole opposite to the equaliser connection yes Earth Testing, state means provided 1 set with

earthlamps and pushbutton Preference Tripping, state if provided yes, and tested yes

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

ake of fuses Siemens, are all fuses labelled yes If circuit breakers are provided for the generators, at what

erload do they operate + 25 % and at what current do the reverse current protective

ices operate - 10 % Cables, are they insulated and protected as per Rule yes

otherwise than as per Rule are they of an Approved Type --, state maximum fall of pressure between bus bars and any point

nder maximum load 7 % volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends yes

re all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical

mage yes, are any cables laid under machines or floorplates yes, if so, are they adequately protected yes State

pe of cables (if in conduit this should also be stated) in machinery spaces HR BLK and VC, galleys HR and VC

d laundries HR type State how the cables are supported or protected fixed to steel cableruns or

conduit

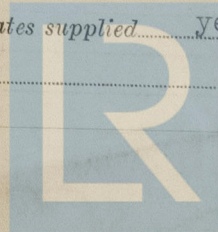
s Re all lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertight

heads provided with deck tubes or watertight glands yes, where unarmoured cables pass through beams, etc., are the holes

ectively bushed yes Refrigerated chambers, are the cables and fittings as per Rule yes

ve refrigeration fan motors been constructed under survey yes and test certificates supplied yes

e the motors accessible for maintenance at all times yes

Lloyd's Register  
Foundation



26 MAY 1960

## 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. in. or sq. mm.	In the Circuit	Rule			
Supplied from Main switchboard					M.		
Stbd. Cooling installation	3 PA	1	10	21	38		
DFB Lighting E.R.	1L	1	6	19	32	VIR	HR type
" " " "	1LA	1	2.5	8	50	"	" "
" " " "	1LB	1	2.5	11.5	4	"	" "
" " " "	2L	1	6	22	26	"	" "
" " " "	2LA	1	2.5	10	16	"	" "
" " " "	2LB	1	2.5	12	4	"	" "
" " Shelterdeck aft	3L	1	6	21.5	50	"	" "
" " " " port	4L	1	2.5	6.5	100	"	LC
" " " " stbd.	5L	1	4	19	40	"	"
" " " " port	6L	1	4	17	22.5	"	HR type
" " " " fore	7L	1	4	17	30	"	" "
" " " " fore	8L	1	4	13	80	"	LC
" " Bridgedeck stbd.	9L	1	4	14	22.5	"	"
" " " " fwd.	10L	1	4	17	60	"	HR type
" " Boatdeck	11L	1	4	17	36	"	" "
" Nautical instr.	NA	1	16	43	52	"	" "
" 24 V. emergency		1	10	20	60	"	" "
Wireless equipment		1	16	25	38	"	LC
DFB Navigation lighting		1	25	3	49	"	"
Electric range		1	35	110	15.5	"	HR type
SB Power E.R.	1P	1	35	74	50	VC	LCB
SB " " "	2P	1	35	55	78	VIR	HR type
" " " "	3P	1	50	72	20	"	" "
" " " "	4P	1	35	55	78	"	" "
" " " "	5P	1	50	133	24	"	" "
				169	30	VC	LCB

## MOTOR CABLES

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	B.H.P.							
Steering gear	2	15	1	25	59	66	160	VIR	RLC
Gen. service pump	2	45	1	70	171	212	58	VC	LCB
Main air compressors	2	73	1	120	273	292	47	"	"
Main circ. pump	1	28	1	25	106	108	60	"	"
L.O. and cooling oil pump	2	79/88	1	150	294/327	346	48	"	"
Main fresh coolingw.p.	2	26	1	50	99	169	61	"	"
Supplied from SB power 1P									
Sanitary pump	1	4.5	1	4	18	22.5	28	VIR	HR type
Domestic water pump	1	4.5	1	4	18	22.5	28	"	" "
Stand by pump	1	4	1	4	16	22.5	30	"	" "
L.O. purifier	2	2.5	1	2.5	10	15.5	21	"	" "
L.O. transfer pump	1	6.5	1	6	26	29	12	"	" "
Sludge pump	1	2.5	1	2.5	10	15.5	44	"	" "
Supplied from SB Power 2P & 4P									
Aux. salt coolingw. pump	2	4	1	4	15	22.5	24	"	" "
Fuel valve coolingw. pump	2	4	1	4	15	22.5	14	"	" "
Drinkwater pump	2	1	1	1.5	4.5	9.5	17	"	" "
Boiler circ. pump	2	5	1	4	20	22.5	24	"	" "
Supplied from SB Power 3P & 5P & 6P									
Coolingw. pump Cooling Inst.	1	0.6	1	1.5	3	9.5	14	"	" "
Hotwater circ. pump	1	0.5	1	1.5	2.5	9.5	12	"	" "
Aux. bilge pump	1	9	1	10	35	38	20	"	" "
Purifier	1	7.5	1	10	30	38	30	"	" "
"	2	15	1	25	59	63	12	"	" "
Booster pump	2	10	1	16	39	49	16	"	" "
Boiler fan	2	1.2	1	2.5	5	15.5	13	"	" "
Boiler fuel oil transf. p.	1	0.5	1	1.5	2.5	9.5	6	"	" "
Supplied from SB power 7P									
Lathe	1	3	1	2.5	12	15.5	14	"	" "
Drilling machine	1	1.4	1	2.5	6	15.5	12	"	" "
Grinder	1	2	1	2.5	9	15.5	12	"	" "
Turning gear	1	13	13	2.5	51	63	32	"	" "
Tackle	1	6	1	6	23	29	44	"	" "
Supplied from SB power 8P									
Fan purifier	1	1	1	1.5	4.5	9.5	24	"	" "

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



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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.

Van Rietschoten & Houwers  
Electrotechnische Maatschappij N.V.

P.P. Indekommen

Electrical Contractors.

Date

2/2/1960

#### COMPASSES

Have the compasses been adjusted under working conditions. yes

P.P.N.V. KON. MIJ. "DE SCHELDE"

H.G. Mastenb.

Builder's Signature.

Date 22-2-60

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.

No. 295. No. 296. ARGO CHIOS,

ARGO DELOS, ARGO OLLANDIA, ARGO ELLAS

Plans. Are approved plans forwarded herewith. no

If not, state date of approval.

Secr. letter of 29.4.57.

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 540 Kilowatts.

The amount of Fee ... x Fl. 1107.

When applied for,

23 MEI 1960

When received,

Travelling Expenses (if any) £ fl : 147.1

19

Surveyor to Lloyd's Register of Shipping  
H. van der Sluis.

Committee's Minute

Assigned

See Rpt 46