

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

NOV 1958

Date of writing Report 19 When handed in at Local Office 19 Port of Rotterdam.

No. in Survey held at Flushing Date, First Survey 17-5-1956 Last Survey 10-10-1958.

Reg. Book. (No. of Visits 31)

1/90109 on the m.s. "ARGO DELOS"

Built at Flushing By whom built N.V. Kon. Mij. "De Schelde" Yard No. 294 When built 1958.

Owners Shipping Developments Corp. Port belonging to Piraeus

Installation fitted by van Rietschoten & Houwens N.V. When fitted 1958.

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 DC

Heating -- Power 220 DC 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 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 under 100 kw. been supplied and the results found as per Rule yes Position of Generators Engineroom Floor at portside

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 Engineroom platformdeck at Portside

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 switchboard, 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 -- 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 autom. circuit breakers with overload-reverse current relay and no-volt coil.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 2-pole knife switches with HRC fuses

2-pole rotary switches with Zed type fuses

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

ammeters 3 voltmeters 3 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 1 set with 2 earthlamps and pushbutton 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 Siemens, are all fuses labelled yes If circuit breakers are provided for the generators, at what overload do they operate + 25% and at what current do the reverse current protective devices operate - 10% Cables, are they insulated and protected as per Rule yes

if otherwise than as per Rule are they of an Approved Type --, state maximum fall of pressure between bus bars and any point under maximum load 7 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 HR-RLK and VC, galleys HR and VC and laundries HR type State how the cables are supported or protected fixed to steel cableruns or in 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 yes

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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"ARGO DELOS"

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes Emergency Supply, state position
24 V. battery on Cdo Bridge deck

Navigation Lamps, are they separately wired yes controlled by separate double pole switches and fuses yes Are the switches and fuses in a position accessible only to the officers on watch yes is an automatic indicator fitted no

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule. yes, state battery capacity in ampere hours 180/5h Where required to do so does it comply yes

Lighting, is fluorescent lighting fitted..... If so, state nominal lamp voltage..... and compartments where lamps are fitted.....

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof. yes

Searchlights, No. of 1, whether fixed or portable. portable are they of the carbon arc or of the filament type. filament type

Heating and Cooking, is the general construction as per Rule. yes

compartments in which inflammable gases cannot accumulate and protected from _____, are heaters in the

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment.....yes..... Have motors of 100 BHP and over been installed.....

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule. yes

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with _____, are all fuses of an Approved Cartridge Type _____

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. --- Are the fittings for pump
E.S.D., if fitted state maker Hughes location of transmitt. --- Are all cables lead covered as per Rule. ---

location of transmitter and receiver. Eng. Room double bottom

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

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

[illegible]

PARTICULARS OF GENERATING PLANT

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Horse- power per Min.	TYPE.	MAKER.
MAIN	3	Electro-Smit	180	230	780	620	Diesel	Stork-Hengelo.
EMERGENCY ...								
ROTARY								
TRANSFORMER								

GENERATOR CABLES.

[illegible]

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, 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.					
Distribution cables (to Section-boards and Distribution-Fuse-boards, etc.)									
Supplied from Main Switchboard.									
SB Power E.R. 6P	1	35	107	✓ 134	30	VC	LCB		
SB " E.R. 7P	1	50	86	✓ 99	14	Rubber HR type			
SB " E.R. 8P	1	50	130	✓ 169	20	VC	LCB		
SB " deckmachinery 9P	2	95	290	✓ 514	74	"	"		
SB " " 10P	1	95	236	✓ 257	32	"	"		
SB " " 11P	2	95	290	✓ 514	82	"	"		
SB " " 12P	1	95	262	✓ 257	124	"	"		
SB Ships Ventilation 1F	1	35	59	✓ 78	70	Rubber HR type			
SB " " 1FA	1	4	7	✓ 22.5	50	"	" "		
Domestic service D	1	50	127	✓ 169	26	VC	LCB		
Motor cables									
Supplied from SB power 8P									
Oil transfer pump	2	12	1	16	47	✓ 49	16	Rubber Hr Type	
E.R. fan	2	10	1	16	39	✓ 49	46	" " "	
Supplied from SB 9P, 10P, 11P & 12P.									
Cargo winch	12	40	1	50	180	✓ 169	25	VC LCB	
Warping winch	1	50	1	70	190	✓ 212	100	" "	
Exhaust fan	4	0.5	1	1.5	2.2	✓ 9.5	17	Rubber HR type	
Suez-searchlight	1		1	10	30	✓ 38	70	" LC	
Windlass	1	70	1	95	262	✓ 257	150	VC LCB	
Supplied from SB 1F & 1FA									
Fan	2	6.3	1	6	24.5	✓ 29	10	Rubber HR type	
Vent. fan accomm.	1	0.7	1	1.5	3	✓ 9.5	10	" " "	
" " "	1	0.16	1	1.5	1	✓ 9.5	50	" " "	
" " "	1	1.4	1	2.5	6	✓ 15.5	50	" " "	
Supplied from SB D									
Baking oven	1	10	1/8 KW	1	16	46	✓ 49	26	" " "
Hotplate	1	5	KW	1	6	23	✓ 29	30	" " "
Hotplate	2	2.5	KW	1	2.5	12	✓ 15.5	12	" " "
Boiler	3	3.3	KW	1	4	15	✓ 22.5	20	" " "
Refrigerator	2	0.25		1	1.5	1.2	✓ 9.5	13	" " "
Washing machine	1	1/4	KW	1	1.5	1.1	✓ 9.5	46	" " "
Flat iron	1	1/2	KW	1	1.5	2.2	✓ 9.5	40	" " "
Locker heating	2	1/8	KW	1	2.5	8	✓ 15.5	16	" " "
Cooling compressor	1	5		1	4	20	✓ 22.5	6	" " "
Fan cooling room	2	0.1		1	1.5	1	✓ 9.5	8	" " "

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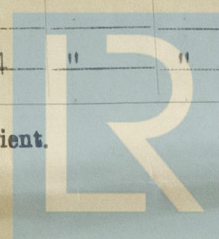
DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

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.			
Supplied from Main Switchboard								
SB Cooling installation	3PA	1	10	21	38	32	VIR	HR type
DFB lighting E.R.	1L	1	6	19	29	50	"	" "
" " " "	1LA	1	2.5	8	15.5	4	"	" "
" " " "	1LB	1	2.5	11.5	15.5	26	"	" "
" " " "	2L	1	6	22	29	16	"	" "
" " " "	2LA	1	2.5	10	15.5	4	"	" "
" " " "	2LB	1	2.5	12	15.5	50	"	" "
" " Shelterdeck aft	3L	1	6	21.5	29	100	"	LC
" " " prt.s.	4L	1	2.5	6.5	15.5	40	"	"
" " " stbd.	5L	1	4	19	22.5	50	"	HR type
" " " prt.s.	6L	1	4	17	22.5	30	"	" "
" " " fore	7L	1	4	17	22.5	80	"	LC
" " " "	8L	1	4	13	22.5	120	"	"
" " Bridge deck stbd.	9L	1	4	14	22.5	60	"	HR type
" " " fwd.	10L	1	4	17	22.5	36	"	" "
" " Boatdeck	11L	1	4	17	22.5	52	"	" "
" Nautical Instruments	NA	1	16	43	49	60	"	" "
" 24 V. Emergency		1	10	20	38	10	"	LC
Wireless Equipment		1	16	25	49	60	"	"
DFB Navigation Lighting		1	25	3	15.5	60	"	HR type
Electric range		1	35	110	134	50	VC	LCB
SB power E.R.	1P	1	35	74	78	36	VIR	HR type
" " " "	2P	1	35	55	78	20	"	HR type
" " " "	3P	1	50	72	99	60	"	" "
" " " "	4P	1	35	55	78	24	"	" "
" " " "	5P	1	50	133	169	30	VC	LCB "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Steering gear	2	15	1	25	59	63	160	Rubber RLC	
Gen. Service pump	2	45	1	70	171	212	58	VC	LCB
Main Air compressor	2	73	1	120	273	292	47	"	"
Main Circ. pump	1	28	1	25	106	108	60	"	"
Lub. and cooling oil p.	2	79/88	1	150	294/327	346	48	"	"
Main fresh coolingw. pump	2	26	1	50	99	169	61	"	"
Supplied from SB Power 1P									
Sanitary pump	1	4.5	1	4	18	22.5	28	Rubber	HR type
Domestic waterpump	1	4.5	1	4	18	22.5	28	"	" "
Standby pump	1	4.5	1	4	18	22.5	30	"	" "
L.O. Purifier	2	2.5	1	2.5	10	15.5	21	"	" "
L.O. Transferpump	1	7	1	6	28	29	12	"	" "
Sludgepump	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 cool.w. pump	2	4	1	4	15	22.5	14	"	" "
Drinkwaterpump	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.p. Coolinginst.	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. Bilgepump	1	9	1	10	35	38	20	"	" "
Purifier	1	7.5	1	10	30	38	30	"	" "
Purifier	2	15	1	25	59	63	12	"	" "
Boosterpump	2	10	1	16	39	49	16	"	" "
Boilerfan	2	1.2	1	2.5	5	15.5	13	"	" "
Boiler F.O. transferp.	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	1	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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Lloyd's Register Foundation

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.

[Signature]

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions yes

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

Builder's Signature.

Date

[Signature]

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 ARGO OLLANDIA, ARGO ELLAS, ARGO CHIOS

Plans. Are approved plans forwarded herewith no If not, state date of approval Secr. letter of 29-4-1957.

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 ...

£ 1055.-

When applied for,
110 NOV 1958

Travelling Expenses (if any) £ 200.-

When received,
19

Surveyor to Lloyd's Register of Shipping.

H. van der Sluis.

Committee's Minute TUESDAY 18 NOV 1958

Assigned

See Rpt 1.