

Rpt. 13.

No. 35543

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

29 NOV 1952

Date of writing Report 28-10 1952 When handed in at Local Office 15-11 1952 Port of Rotterdam

m 53. No. in Survey held at Krimpen o/d Yssel Date First Survey 4 Nov 1950 Last Survey 18/12 Oct. 1952
55. eg. Book. (No. of Visits 17)18 B 95246 on the MV "NYON" Tons { Gross 4955,97
25 B Built at Krimpen o/d Yssel By whom built vd Giessen Net 2907,84
Owners SUISSE ATLANTIQUE, SOCIETE' DE NAVIGATION MARITIME S.A Port belonging to BASLE

Yard No. 760 When built 10-52

Installation fitted by NY HANDELSCOMPAGNIE, ROTTERDAM When fitted 10-52

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. No

Plans, have they been submitted and approved yes System of Distribution two wire insulated Voltage of Lighting 220

Heating 220 Power 220 D.C. or A.C., Lighting DC Power DC 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
rdanc with a trip switch. — Generators, are they compound wound yes, and level compounded under working conditions yes

s goo 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 E.R. FLOOR Level

full

is the ventilation in way of generators satisfactory yes are they clear of inflammable material and protected from mechanical injury and
ill b damage from water, steam and oil yes Switchboards, where are main switchboards placed E.R. FLOOR Level against
een sa aft bulkheadire 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 —, 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
or each generator and arrangement of equaliser switches 3 pole CB (one pole used for equaliser) with O/c.
protection in thin poles and R/c protection in + pole. CB equipped with no coil
and preference tripping devicend the switch and fuse gear (or circuit breakers) for each outgoing circuit. Winch circuits: 2-pole C.B. with O/c protection
in thin poles. Remainder circuits: 2-pole fuses and 2-pole circuit breakers.

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

mmeters 4 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
indicating Lamps Contact Ammeter and C.B.

Preference Tripping, state if provided —, and tested yes at 110% F.L.C.

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

take of fuses G.E.C. without time lag are all fuses labelled yes If circuit breakers are provided for the generators, at what
verload do they operate with time lag 200% Generator FLC. 120%, and at what current do the reverse current protective
devices operate 15% Generator FLC

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

nder maximum load 46% 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
damage 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 VC-LC and VIB-LC & NWB galleys VC-LC

d laundries — State how the cables are supported or protected Machinery spaces: LC or LC & NWB

able clipped to perforated plating or metal frame work. Cargo holds: LC cable clipped to
sheet iron plating and protected by sheet iron covers. Accommodation spaces: LC cable
clipped to wood grounds or surface

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

lkheads 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

we refrigeration fan motors been constructed under survey — and test certificates supplied

e the motors accessible for maintenance at all times —

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003605-003610-020612

Lloyd's Register Foundation

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule **yes**. Emergency Supply, state position **24 Volt battery placed on bridge deck level supplied lighting fittings near life boats and E.R.**

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 **yes**. Is an alternative supply provided **yes**.

Secondary Batteries are they constructed, fitted and adequately ventilated as per Rule **yes**, state battery capacity in ampère hours **1x 80 Amp. H. 24 Volts 2 x 60 * 12 Volts**. Where required to do so does it comply with 1948 International Convention **✓**.

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 **✓**, whether fixed or portable **✓**, are they of the carbon arc or of the filament type **✓**.

Heating and Cooking, is the general construction as per Rule **yes**, are the frames effectually earthed **yes**, are heaters in the accommodation of the convection type **✓**. Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil **yes**.

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 inspected by the Surveyors during manufacture and testing **✓**.

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

Lightning Conductors, where required are they fitted as per Rule **✓**.

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 **✓**, make of fuse **✓**. Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships **✓**. Are all cables lead covered as per Rule **✓**.

E.S.D., if fitted state maker **Marconi Seagraph** location of transmitter and receiver **Frame 77-78**.

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 **yes**.

PARTICULARS OF GENERATING PLANT

GENERATOR CABLE

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.)

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return loop). In the Circuit. Rule.	INSULATION. Ins.	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 GENERATORS ONLY.							
From main switchboard							
DFB refr. equipment	10K	1	4	17	29	120	YC
DFB vent fans accomm.	17K	1	10	28.6	63	16	"
Lub.oil heater 15k.w.		1	16	67.3	84	28	"
SB power E.R.	14K	1	25	107	108	24	"
S.B. power workshop	16K	1	10	36.6	63	94	"
SB power E.R.	15K	1	35	117	134	29	"
SB winches aft	11K	2	70	289	424	85	"
SB power E.R.	7K	1	16	53.6	84	50	"
DFB power E.R.	8K	1	4	26	29	18	"
SB power E.R.	10K	1	50	134	169	46	"
SB winches fore	5K	1	120	286	292	158	"
SUPPLIED FROM MAIN-GENERATORS OR HARBOUR GENERATOR.							
From main switchboard							
DFB lighting fore ship	5L	1	4	175	29	130	YC
" " shelter deck	4L	1	4	18	29	35	"
" Radar & gyro equipment	6L	1	10	98	63	135	"
" lighting bridge deck	3L	1	4	31	29	35	"
" nautical instr. & alt. supply NAV. 9L	1	4	12	29	130	"	"
" navigation Lighting	1L	1	4	1	29	130	"
" ventilation fans E.R	91K	1	10	27	63	15	"
Radio equipment		1	4	15	29	150	"
DFB lighting E.R	8L	1	4	19	29	60	"
DFB " "	7L	1	4	10.5	29	19	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
<u>SUPPLIED FROM MAIN GENERATORS ONLY</u>								
From main switch board								
Fuel oil transfer pump	4	10	1	10	40	63	45	YE LC
Fresh water transfer pump	5	4	1	4	17	29	18	" "
Steering engine	6	20	1	16	77	84	114	" "
Lub. oil pump 2	7	43	1	50	163	169	45	" "
Lub. oil pump 1	8	43	1	50	163	169	43	" "
From SB power ER 14K								
Turning gear	9	10	1	6	40	40	6	YE LC
Ballast pump	10	17	1	16	67	84	18	" "
From SB power Workshop 16K								
Lub. oil purifier purifier	11	95	1	25	105	93	30	YE LC
From SB power ER 15K								
Bilge pump	12	13	1	10	51	63	11	YE LC
General service pump	13	17	1	16	66	84	19	" "
From SB winches aft 11K								
Alt supply steering gear	20	1	16	74	84	81	YE LC	
4-cargo winches each	25	1	25	95	108	90	" "	
Harpling trineh	33	1	35	126	134	63	" "	
From SB power ER 7K								
3-heavy oil purifiers	14-15	75	1	10	30	63	11	YE LC
Dirty oil pump	17	1	1	95	46	93	25	" "
Fuel oil daily pump	18	2	1	25	9	23	19	" "
Heavy oil circ. pump	19	2.25	1	25	10	23	18	" "
From DFB power ER 8K								
Harbour sea cooling water pump	20	4	1	4	14	29	4	YE LC
Valve cooling water pump	21	8	1	25	9	23	4	" "
From SB power ER 10K								
Salt cooling water pump	22	17	1	16	67	84	16	YE LC
Fresh " " "	23	17	1	16	67	84	17	" "
From SB winches fore 5K								
4-cargo winches each	25	1	25	95	108	92 (85)	YE LC	
2- " " "	33	1	35	126	134	15	" "	
Windlass	24	55	1	40	206	212	79	" "
SUPPLIED FROM MAIN-OR HARBOUR GENERATORS (DFB rent fans ER 91K)								
3 ventilation fans ER	25-6-7	2	1	25	9	23	45	YE LC

NOTE — Use Rpt. 43 Continuation Sheet if the above space is insufficient.

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.

HANDELSCOMPAGNIE N.V.
ELECTROTECHNISCHE AFDeling

Electrical Contractors.

Date 24th Oct. 1952

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

NAAMLOOCE VENNOTSCHAP
C. VAN DER GIJSEN & ZONEN'S
SCHEEPswerven

Builder's Signature.

Date 31 Oct 1952

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. 14th JUNE 1951

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 Secretary's letters and the approved plans or equivalent thereto. The materials used are of a good quality and the design and workmanship are good.

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

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

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Noted 22/11/9-12-52

Total Capacity of Generators 245 Kilowatts.

The amount of Fee ... £ 852/- When applied for,

14-11-1952

When received,

19

Travelling Expenses (if any) £ 84/-

Shall H. K. D. 5/11/52
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES 9 DEC 1952

Assigned See F. E. many. spk