

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report. 3<sup>rd</sup> Nov. 47 When handed in at Local Office. 19... Port of AmsterdamNo. in Survey held at Amsterdam Date, First Survey 22 Oct 47 Last Survey 30 Oct 47  
Reg. Book. (Number of Visits 3)31986 on the ss "Amstel diep" ex. (Robert Kuin). Tons {Gross 7229.49  
Net 4429.65

Built at Portland Oregon By whom built Oregon Shipbuilding Corp. Yard No. 2011 When built 1943

Owners Royal Netherlands Government Port belonging to The Hague

Electrical Installation fitted by Several Electrical Contractors Contract No. — When fitted 1943

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

Have plans been submitted and approved. — System of Distribution Two-wire-system Voltage of supply for Lighting 120

Heating. — Power 120 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity. — Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off. yes Are turbine emergency governors fitted with a

trip switch as per Rule. — Generators, are they compound wound. yes, are they level compounded under working conditions. yes

if not compound wound state distance between generators. — and from switchboard. — Where more than one generator is fitted are they

arranged to run in parallel. yes, are shunt field regulators provided. yes Is the compound winding connected to the negative or positive pole

negative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing. no Have certificates of

test for machines under 100 kw. been supplied. no and the results found as per rule. yes Are the lubricating arrangements and the construction

of the generators as per rule. yes Position of Generators first grating level stairs after bulkhead in

engine room, is the ventilation in way of generators satisfactory. yes are they clear of inflammable material. yes, if situated

near unprotected combustible material state distance from same horizontally. — and vertically. — are the generators protected from mechanical

injury and damage from water, steam and oil. yes, are the bedplates and frames earthed. yes and the prime movers and generators in metallic

contact. yes Switchboards, where are main switchboards placed. in engine room on generator floor adjacent

to generators.

are they in accessible positions, free from inflammable gases and acid fumes. yes, are they protected from mechanical injury and damage from water, steam

and oil. yes, if situated near unprotected combustible material state distance from same horizontally. — and vertically. —, what insulation

material is used for the panels. ebony asbestos, 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 frame effectually earthed. yes

Is the construction as per Rule. yes, including accessibility of parts. yes, absence of fuses on the back of the board. at back of board, individual fuses

to pilot and earth lamps, voltmeters, etc. yes locking of screws and nuts. yes, labelling of apparatus and fuses. yes, fuses on the "dead"

side of switches. yes Description of Main Switchgear for each generator and arrangement of equaliser switches. 175 Amp. double

pole circuit-breakers with overload and reverse-current trips and a three

pole linked knife switch 200 Amp. / one knife used for equaliser.

and for each outgoing circuit. double pole linked knife switches and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. yes Instruments on main switchboard. 3

ammeters. 3 voltmeters. — synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection. yes Earth Testing, state means provided. earth lamps coupled to earth through d.p. switch

Switches, Circuit Breakers and Fuses, are they as per Rule. standard are the fuses an approved type. standard are all fuses labelled as

per Rule. yes If circuit breakers are provided for the generators, at what overload current did they open when tested. 50%, are the reversed current

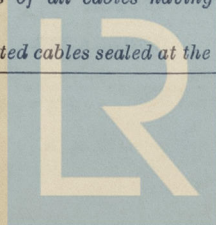
protection devices connected on the pole opposite to the equaliser connection. yes, have they been tested under working conditions, and at what current

did they operate. 60% Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule. yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules. 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. 6%, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets. yes Are paper insulated and varnished cambric insulated cables sealed at the ends. —



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Are all lead sheaths, armouring and conduits effectually bonded and earthed. yes Refrigerated chambers, are the cables and fittings as per Rule. —

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 and with what material. lead. Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. yes Emergency Supply, state position. none

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof.....yes..... Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present.....no..... if so, how are they protected.....

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing none. Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule no. Control Gear and Resistances, are they constructed and

are they of an approved type. Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such spaces? Are the cables lead covered as per Rule. Spare Gear, if the vessel is for open sea service have spares been provided as per Rule.

PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	3	20	120	167.	400	steam engine	—	—
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... ..	20	1	37.002	167	233	40	Rubber	LCBWA
" " EQUALISER ... ..		1	7.077	-	70	20	"	" "
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR ... ..								
GENERATOR ... ..								

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
	No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rate.			
Light panel "1" engine room	1	7/0.097	50	74	30	Rubber	L.C. B & A.
" " "12" cargo fuel stores hot	1	7/0.097	30	74	420	"	"
" " "13" midship accom	1	19/0.074	50	100	144	"	"
" " "14" midship accom	1	19/0.074	60	100	110	"	"
" " "15" cargo fuel off	1	7/0.097	30	74	240	"	"
" " "16" off deck stores	1	7/0.097	35	74	390	"	"
" " "17" Berwick accom bottom	1	19/0.072	60	100	180	"	"
" " "18" navigation instrument	1	7/0.061	15	41	230	"	"
" " "19" Bridge deck accom	1	19/0.074	60	100	160	"	"
Feeder main light "1/10"	1	7/0.038	10	23	320	"	"

LIGHTING AND HEATING, ETC., GIBLETS.														
WIRELESS	...	...	...	"P7"	...	...	1	7.061	35	41	✓	230	Rather	L.C.B.N.A.
NAVIGATION LIGHTS	...	...	...	...	...	...		7.024	0.2	11.5	✓	400	"	"
LIGHTING AND HEATING	...	...	...	...	...	...		7.024	-	11.5	✓	-	"	"
feeder degaussing	"	89"					1	7.082	200	233	-	-	"	V.I.P. Bark board
battery charging	(24V. batt.)						1	7.061	20	41	✓	4	"	"
salinity indicator	5B"						1	0.002	1	5	✓	40	"	L.C.B.N.A.
feeder gyrocompass							1	7.048	see 20	31	✓	210	"	L.C.B.N.A.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	MOTOR CABLES.						
Refrig. compressa "P.C."	1	7.5	1	19.066	57	87°	120	Ratier	L.C.B.W.R.
Hand pump from Pan. "L"	1	3/4	1	7.024	6.3	11.5°	48	"	"
Hand H. pump from Pan. "L"	1	3/4	1	7.024	6.3	11.5°	90	"	"



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.

Electrical Engineers.

Date

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 0.3 Ampères lead into feet from standard compass lead into feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted yes

The maximum deviation due to electric currents was found to be nil degrees on any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case. If so, state name of vessel

Plans. Are approved plans forwarded herewith. If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith no

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

classing. The electrical equipment has been fitted to the standard and under supervision of the American Bureau of Shipping. The plans available have been examined and found to generally in accordance with the Society's Rules. The whole has been examined and found as far as could be ascertained in a satisfactory condition. The quality of workmanship was found good. The three generator armatures have been cleaned and minor repairs carried out at the port to lift the insulation resistance. Installed a change over switch for navigation panel with auxiliary feeder from panel 19.

The equipment tried under working conditions and was megger tested with satisfactory results. In my opinion this installation merits the approval of the committee

Notes

21/11/47

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ...

£ 212

When applied for, 10.11.1947

Travelling Expenses (if any)

£ 0.50

When received, 19

Committee's Minute

FIL 19 DEC 1947

Assigned

Surveyor to Lloyd's Register of Shipping.



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