

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office JUN 21 1939

Date of writing Report 10-6-1939 When handed in at Local Office 19 Port of Rotterdam

No. in Survey held at Rotterdam Date, First Survey 14-3-39 Last Survey 25-5-1939
Reg. Book. (Number of Visits 9)

on the m.s. "PENDRECHT" Tons { Gross 10746.04
Net 6367.03

Built at Rotterdam By whom built Rotterdam Droogdok M.Y. Yard No. 212 When built 1938/1939

Owners Stoomvaart M.Y. de Maas Port belonging to Rotterdam

Electrical Installation fitted by A. de Hoop Contract No. When fitted 1939.

Is vessel fitted for carrying Petroleum in bulk yes Is vessel equipped with D.F. yes E.S.D. yes Gy.C. ✓ Sub.Sig. ✓

Have plans been submitted and approved yes System of Distribution two conductor insulated Voltage of supply for Lighting 110

Heating 110 Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency ✓ Prime Movers,

has the governing been tested and found efficient when the whole 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 no, are shunt field regulators provided yes Is the compound winding connected to the negative or positive pole

positive pole Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing ✓ Have certificates of

test for machines under 100 kw. been supplied yes 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 in engine room, portside, on a platform

, 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, portside, on same platform

as 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

switchboard is of "dead front" type, switches are mounted on micaite insulated steel bars material is used for the panels or on small slabs of insulating material, 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 ✓ fuses are mounted on the back of the board, where a special platform is provided, 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

main generator: a double pole change over switch & double pole fuses

auxiliary generator: a double pole switch & double pole fuses

and for each outgoing circuit a double pole change over switch & double pole fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 2

ammeters 2 voltmeters ✓ synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection ✓ Earth Testing, state means provided for each generator: one Ohmmeter and two earth lamps

Controlled by a rotary change over switch.

and where are the controlling switches fitted in chartroom and in engineroom, are all fittings suitably ventilated yes,
are all fittings and accessories constructed and installed as per Rule yes Searchlight Lamps, No. of one, whether fixed or portable portable
(searchlight is not on board) are their fittings as per Rule yes 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 none provided Motors, are all motors constructed and
installed as per Rule yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,
steam and oil yes, if situated near unprotected combustible material state minimum distance from same horizontally yes and vertically yes.
Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing yes Have certificates of test for motors under
100 BHP intended for essential services been supplied and the results found as per Rule yes Control Gear and Resistances, are they constructed and
fitted as per Rule yes Lighting Conductors, where required are they fitted as per Rule yes ~~Steel masks~~ Ships carrying Oil having a Flash Point
less than 150° F. Have all the special requirements of the Rules for such ships been complied with yes, are all fuses of the cartridge type yes
are they of an approved type yes If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof
type yes Spare Gear, if the vessel is for open sea service have spares been provided as per Rule yes, are they suitably stored in dry
situations yes Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory yes

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 ...	1	23	110	209	400	steam engine	✓	✓
Auxiliary	1	16	110	146	650	diesel engine	diesel oil	above 150°F
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet meters).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area ^{or} Nominal Diameter Standard Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	23	1	185	209	235	20	rubber	lead alloy sheath - manure covering - wire armouring - fine proofed to be cover.
EQUALISER								
Auxiliary Generator	16	1	95	146	150	20	"	"
Shore connection		1	50	100 (use)	99	54	"	"
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

WIRELESS	1	6	25	29	232	"	"	"
NAVIGATION LIGHTS	1	4	25	22.5	232	"	"	"
LIGHTING AND HEATING								
Engine room Lighting dist. boards (2 circ.)	1	4	10	22.5	16-28	"	"	"
Accommodation aft Lighting dist. boards (looped in)	1	10	20	38	70-32	"	"	"
Crew's Quarters aft Lighting dist. boards (looped in)	1	10	20	38	24-54-54	"	"	"
Messup & forward Lighting dist. board	1	35	35	78	208	"	"	"
Forward lighting subdist. board (from midship)	1	6	6	29	140	"	"	"
Heaters dist. board	1	35	37	63	62	"	"	"
3 KW. hot plate	1	10	27	38	10	"	"	"
1.2 KW. hot plate	1	2.5	10.5	15.5	42	"	"	"
Searchlight	1	35		63	332	"	"	"
Camolights (4)	1	1.5	4.5	9.5	44-10-29	"	"	"

[illegible]

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. ELECTROTECHNISCH-BUREAU
A. DE HOOP

Electrical Engineers.

Date

14/139

COMPASSES.

Minimum distance between electric generators or motors and standard compass 15 feet (converter of wireless station)

Minimum distance between electric generators or motors and steering compass 18 feet (" " " ")

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères 1 foot from standard compass 1 foot from steering compass. compass lighting

A cable carrying 8 Ampères 20 feet from standard compass 20 feet from steering compass. battery of wireless station

A cable carrying 4 Ampères 4 feet from standard compass 7 feet from steering compass. chartroom lights

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 every course in the case of the standard compass, and nil degrees on every course in the case of the steering compass.

DE ROTTERDAMSCH E DROOGDOEK MIJ.

Builder's Signature.

Date 19.6.1939

A. Maape

Is this installation a duplicate of a previous case no If so, state name of vessel ✓

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

The electrical equipment of this vessel has been fitted on board under special survey, tested under full working conditions and found satisfactory. The material and workmanship are good and the installation merits in my opinion the Committee's approval.

Noted
23/6/39

Total Capacity of Generators 39 Kilowatts.

The amount of Fee ... f 297.00 : When applied for, 20.6.1939

Travelling Expenses (if any) f 11.00 : When received, 21.7.1939

H. van der Wijk

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See PE machine rpt

(MADE IN ENGLAND.)
2m.10.38.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

FRI 30 JUN 1939



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Foundation