

Rpt. 13.

No. 35781 d

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

26 JAN 1953

Date of writing Report 16-1 1953 When handed in at Local Office 18-1 1953 Port of Rotterdam

No. in Survey held at Rotterdam Date, First Survey 24-3-51 Last Survey 24-10-1952
Reg. Book. (No. of Visits 13)

on the Tw. Sc. SUCTION HOPPER DREDGER "MATOLA" Tons Gross 1158.76 Net 530.21

Built at SCHIEDAM By whom built N.V. WERF GUSTO Yard No. 20167 When built 1952

Owners MINISTERIO DAS COLONIAS - DERECCAO - GENERAL DE FOMENTO COLONIAL Port belonging to LOURENCO MARQUES

Installation fitted by N.V. HANDELS COMPAGNIE, ROTTERDAM When fitted 1952

Is vessel equipped for carrying Petroleum in bulk no Is vessel equipped with D.F. no E.S.D. yes Gy.C. no 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 D.C. Power D.C. 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. 185kw generators only Is the compound winding connected to the negative or positive 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 ER floor level bhd & Port side

resp. 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 ER floor level against foreward,

bulkhead

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. 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. 185kw generators: 3-pole C.B. / one pole used for equaliser /

with O/C protection in twin poles and R/C protection in + pole. C.B. equipped with no volt coil and P/R

30kw generator: double pole C.B. with O/C protection in twin poles. 5kw generator: D.P. fuses & D.P. DT switch

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Cutter motor, suction motor and power ER: 3-pole

C.B. with O/C protection in each pole. Remainder: D.P. switch & D.P. fuses

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

ammeters 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. For each

busbar system earth indicating lamps. Preference Tripping, state if provided. O/C relay fitted in each Gen. circuit controlled contactor

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

make of fuses GEC & Hazemeyer, are all fuses labelled. yes If circuit breakers are provided for the generators, at what

overload do they operate direct acting at 100% overload; time delay 20 sec at 25% overl., and at what current do the reverse current protective

devices operate 185 Amps 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 660 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends. -

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 MICC & VIR- LC&MWB cable, galleys VIR- LC&MWB cable

and laundries. State how the cables are supported or protected Machinery spaces: MICC & LC-MWB cable

clipped to metal frame work or perforated plating. Accommodation spaces: LC&MWB cable clipped to

wood ground or surface

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. -

Have refrigeration fan motors been constructed under survey. - and test certificates supplied. -

Are the motors accessible for maintenance at all times. -



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 12-12-52

COMPASSES.

Have the compasses been adjusted under working conditions yes

N.V. WERF GUSTO
van FIRMA A. F. SMULDERS

Builder's Signature.

Date 12-12-52

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 Verzhuve LOHID "Punguë"

Plans. Are approved plans forwarded herewith no If not, state date of approval 26-2-52

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 constructed and 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 the equipment has been tried under full working conditions and found satisfactory.

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

2m.850.—Transfer. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators 405 Kilowatts.

The amount of Fee ... £ 1119 : When applied for, 21-1-1953

Travelling Expenses (if any) £ 57 = : When received, 19

H. van Bluis
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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 Foundation