

Rpt. 13.

No. 157380

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

AUG - 4 1939

Date of writing Report... 31-7-1939 When handed in at Local Office... 19... Port of Amsterdam

No. in Survey held at Amsterdam Date, First Survey March 30 Last Survey 27 July 1939
Reg. Book. (Number of Visits 16)35105 on the m.s. "TIBIA" Tons {Gross 10356
Net 6146.86

Built at Amsterdam By whom built Ned. Scheepshouw M. Yard No. 272 When built 1939

Owners N.V. Petroleum M. & La. Ceuze Port belonging to 's Gravenhage

Electrical Installation fitted by Groenewald, vander Poll & Co. 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. yes

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

Heating yes 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 yes 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 engineroom starboardside

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 engineroom starboardside

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 marble with mica bushings 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 yes Is the frame effectually earthed yes

Is the construction as per Rule yes including accessibility of parts yes automatic switchgear of submersed lighting equipment is on the back of the board; ample space is provided.

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 steam driven generator:

a double pole change over switch & double pole fuses; diesel driven generator: a double pole

switch & double pole fuses

and for each outgoing circuit a double pole 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 yes Earth Testing, state means provided two pairs of earth fault indicating lamps

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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	1	20	110	183	400	steam engine	✓	✓
	1	20	110	183	400	diesel engine	diesel oil	above 150°F.
EMERGENCY ...								
ROTARY TRANSFORMER	1	1.5	110/20-22	22/335-42	3000	electromotor.		



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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.

N.V. Groothoofd, Van der Pijl & Co.

Commissaris

Electrical Engineers.

Date *2 Aug 1939*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *40ft. (converter of wireless station)*

Minimum distance between electric generators or motors and steering compass *30ft. (ventilator)*
30ft. (converter of wireless station)

The nearest cables to the compasses are as follows:—

A cable carrying *1.5* Ampères *1* feet from standard compass *1* feet from steering compass. (Compass lighting) ✓

A cable carrying *1* Ampères *0.5* feet from standard compass *3* feet from steering compass. (electr. telegraph)

A cable carrying *2* Ampères *10* feet from standard compass *6* feet from steering compass. (wheel house lighting) ✓

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.

N.V. NEDERLANDSCHE SCHEEPSBOUW-MAATSCHAPPIJ

Builder's Signature.

Date *2 Aug 1939*

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
RR 2/9
9/9/39

Total Capacity of Generators *40* Kilowatts.

The amount of Fee ... *f 300.00* : When applied for, *3-8-1939*

Travelling Expenses (if any) *f 13.-* : When received, *11-3-1939*

Brugdorff *H. van der Wijk*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 11 AUG 1939

Assigned

See F.E. machy rpt