

Rpt. 13.

No. 31980A

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

10 FEB 1950

Date of writing Report 6/1/50 When handed in at Local Office 7/1/50 Port of ROTTERDAM

No. in Survey held at SCHIEDAM Date, First Survey 6/8/48 Last Survey 9/1/50
Reg. Book. (Number of Visits 6)on the MOTOR TANKER "MITRA" Tons { Gross 8262.60
Net 4600.03

Built at SCHIEDAM By whom built WILTON FVENOORD N.V. Yard No. 720 When built XII/49

Owners NV PETROLEUM MY. "LACORONA" Port belonging to S-CRAVENHALE

Electrical Installation fitted by H. L. ROON & CO N.V. Contract No. When fitted XII/49

Is vessel fitted for carrying Petroleum in bulk YES Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES Sub.Sig. NO
RADAR NO.

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

Heating 110 Power 110 Direct or Alternating Current, Lighting direct Power direct 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 no, are shunt field regulators provided yes Is the compound winding connected to the negative or positive pole

negative 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 engine room floor level stbd side

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 engine room floor level near 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 Synvarnyo, 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 yes, 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 2-pole manually

operated circuit breaker with 1/2 trips in each pole (instantaneous setting in - pole and

with time delay of 1 sec in + pole) (Make G. E. C.)

and for each outgoing circuit 2 P. 2 T. switches and 2 P. 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 earth lamps connected to "E" through 2 P. switch and 2 P. fuses

Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an approved type yes, 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 1.25, are the reversed current

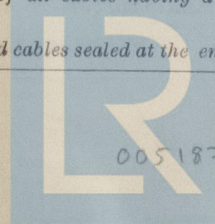
protection devices connected on the pole opposite to the equaliser connection —, have they been tested under working conditions, and at what current

did they operate — 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 56% are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets yes except the mineral-insulated cables Are paper insulated and varnished cambric insulated cables sealed at the ends



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PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	Serial No. of	RATED AT				WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	Fuel Used.	Flash Point of Fuel.
		Kilowatts.	Volts.	Ampères.	Revs. per Min.			
MAIN ...	129132	20	110	2 1/2	6 1/2	Hammer mill	Steam engine	
	129004	20	110	2 1/2	6 1/2	" "	Gas engine	above 150°F
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT.		APPROX. LENGTH (feet plus return feet).	INSULA- TED 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.			
AUX. SWITCHBOARDS AND SECTION BOARDS ...							
Supplied from main switchboard							
1 P. box for E.R. and B.P. placed in E.R. marked 1	1	0.0145	40 ✓	60	16		
1 P. box for meters placed aft ship	1	0.003	5 ✓	40	70		
1 P. box for aft ship placed aft marked E	1	0.0145	40 ✓	60	56		
Longway switchboard placed in E.R.	1	0.0145	14.5	60	24	M.Y.	P.S.
P.S. box placed in E.R. marked 1	1	0.2	240	314	26		
More connections	1	0.2	200 ✓	314	56		
Box meter house placed midship	1	105 sq. mm	100 ✓	235	106	W.R.	M.W.B.
Supplied from L.P. box placed in E.R. marked 1							
1 P. box E.R. top marked 1	1	4 sq. mm	8 ✓	22.5	12		
1 P. box Midship - E.R. " 2	1	4 " "	4 ✓	22.5	20	W.R.	M.W.B.
1 P. box " - E.R. " 3	1	4 " "	9 ✓	22.5	60		
1 P. box E.R. and B.P. " 4	1	4 " "	11 ✓	22.5	60		
1 P. box E.R. " 5	1	4 " "	9 ✓	22.5	2		

WIRELESS	1	10 sq. mm	20 ✓	30	20	N.Y.R.	M.H.B.
Navigation Lights supplied from main distribution							
LIGHTING AND HEATING							
Stemlight	1	1.5	0.5 ✓	0.5	200		
North head light aft	1	1.5	0.5 ✓	0.5	154		
Port sidelight	1	1.5	0.5 ✓	0.5	20	N.Y.R.	M.H.B.
Starboard sidelight	1	1.5	0.5 ✓	0.5	24		
North head light fore	1	1.5	0.5 ✓	0.5	126		
supplied from main midships and placed midship							
Wax compass installation		6	15 ✓	20	12	N.Y.R.	M.H.B.
supplied from distribution box placed in chest-house marked A							
Telegraph installation	1	1.0	1 ✓	0.5	200		
Speed meter	1	1.0	2 ✓	0.5	200	N.Y.R.	M.H.B.
Rebo sounding device and direction finder	1	1.5	2 ✓	0.5	500		

ALL IMPORTANT MOTORS TO BE ENUMERATED.		Serial No.	B.H.P.									
From main switchboard												
Trimming gear motor	31197	15	1	0.06	12.2	14.3	31	M.A.	L.I.	made motor		
Push air fan P. (alt ship)	111110	5.6	1	0.0145	49	6.0	56			Normal		
From P. 1. born placed in E.R. marked 1.												
lub oil separator	2411-107217	1.5 AM	1	6 1/4 mm	17.1	2.9	54			Area		
Fuel oil valve circulating pump	42505	0.75	1	2.5	7.1	16.5	59			complete between		
Grinding machine	2.84-33912	2	1	6	17.	2.9	21			hamshire		
Air supply fan E.R.		0.35	1	1.5	2.	9.5	32					
Air supply fan galley	117206	0.6	1	2.5	5.7	15.5	77			Alph hall		
oil separator	11546	0.6	1	2.5	5.7	16.5	47	N/R	L&MWB	Alph hall		
Potato-pul machine		1	1	2.5	8.	15.5	44					
Bathe	2111-15804	3	1	10	25.4	3.8	16			Globe Engineering		
Grinding machine	104044	2	1	10	16.	2.8	12			Millford		
Fuel oil separator 1	20R-2052	1.5	1	25	60	63	34			Newbury's		
" 2	20R-2050	1.5	1	25	60	63	59					
Trimming pump fuel oil 170-34358		1.5	1	16	40	44	20			Smith-Hickson		
From main switchboard placed midship												
Push air fan mid-ship P.1	114605	5.45	1	16	47	49	82	N/R	L&MWB	Alph hall		
From Distribution box B4.												
Air supply fan S. Bridgeport	111647	0.6	1	1.5	5.7	9.5	13	N/R	L&MWB	Alph hall		

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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.

p.p. N.V. Rotterdamsche Electriciteits Mij.
v/h H. DEBOON & Co.

Electrical Engineers.

Date 31.12.1950

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 Ampères feet from standard compass 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.....

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

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

Builder's Signature.

Date.....

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..... 6-9-48 and plans No 2206/1 D1197 and 2206/R B1430

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith..... yes

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 constructed and installed under my supervision in accordance with the 1949 Rules, the approved and amended plans and the Secretary's letter dated 5/II/48.

The materials used are of good quality and the design and the workmanship are satisfactory. Insulation and other tests have been carried out with satisfactory results. On completion the equipment has been tried out during the trials under full working conditions and found good.

This equipment is in my opinion suitable for a classed vessel having the notation "Carrying Petroleum in Bulk".

Noted SM 27/2/50.

Total Capacity of Generators..... 601 Kilowatts.

The amount of Fee ... £681.- : When applied for, 6/2.19.50
Travelling Expenses (if any) £22.50 : When received,19.....

Surveyor to Lloyd's Register of Shipping.

FRI. 10 MAR 1950

Committee's Minute.....

Assigned..... for units see J.E. Rpt