

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 7 MAY 1951

Date of writing Report 15-3 1951 When handed in at Local Office 17-3 1951 Port of Rotterdam

No. in Survey held at Heusden Date, First Survey 22-3-50 Last Survey 28-3-1951
Reg. Book. (No. of Visits 11.)

9197 on the Motor Tanker "Leendert B" Tons Gross 499.57 Net 270.91
Built at Heusden By whom built Messrs de Haan & Oerlemans Yard No. 269 When built 3-51

Owners J.A. Oelbroeders Broers Dordrecht Port belonging to Dordrecht
Installation fitted by Messrs N.V. Handelscompagnie When fitted 3-51

Is vessel equipped for carrying Petroleum in bulk yes Is vessel equipped with D.F. yes 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 110
Heating no Power no 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, except shaft driven generator, and level compounded under working conditions yes

if not compound wound state distance between generators - and from switchboard - Are the generators 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

Position of Generators E.R. floor level
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 E.R. floor level

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 2.P. fuses and 2.P.P.T. switch

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 2.P. switches and 2.P. fuses

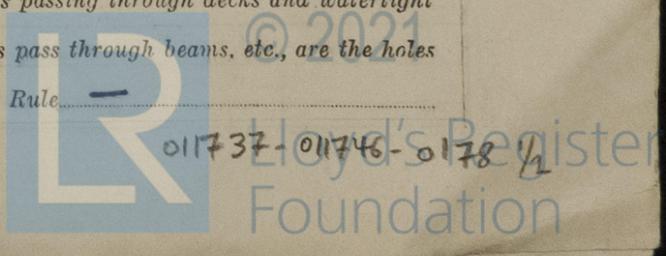
Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard one
ammeters one voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reversed current
protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided earth

indicating lamps connected to E through 2.P. fuses
Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes KEMA approved
make of fuses Welen, are all fuses labelled yes If circuit breakers are provided for the generators, at what
overload do they operate - and at what current do the reversed current protective devices operate -

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule yes

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 60%, are the ends of all cables having a sectional
area of 0.01 square inch and above provided with soldering sockets yes 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 no, if so, are they
adequately protected - Are cables in machinery spaces, galleys, laundries, etc., lead covered yes or run in conduit -
or of the "HR" type - State how the cables are supported or protected E.R. - 2 L & M W B cable clipped
to perforated plating accommodation and bridge space; h.l. cable clipped to wood
frames or surface under fore gangway; h.l. & h.w.B cable run in galvanised conduit

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 -



Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes Emergency Supply, state position yes
Main battery placed above deep waterline supplied lighting fittings near life boats
 Navigation Lamps, are they separately wired yes controlled by separate double pole switches and fuses yes Are the switches and fuses in a position accessible only to the officers on watch yes, is an automatic indicator fitted yes Is an alternative supply provided yes
 Secondary Batteries, are they constructed and fitted as per Rule yes, are they adequately ventilated yes
 state battery capacity in ampere hours. 40 cells battery 100 amp hours 100 volts
 Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof yes
 Are any 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 —
 and where are the controlling switches fitted — Are all fittings suitably ventilated yes
 Searchlight Lamps, No. of 1, whether fixed or portable portable, are they of the carbon arc or of the filament type filament type
 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 — Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil yes
 Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing —
 Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule yes
 Control Gear and Resistances, are they constructed and fitted as per Rule yes Lightning Conductors, where required are they fitted as per Rule — 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 an Approved Cartridge Type yes, make of fuse Wolcott Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships yes Are the cables lead covered as per Rule yes
 E.S.D., if fitted state maker Rob Marine type Junior Fathometer location of transmitter Shellplate E.R. and receiver Shellplate E.R.
 Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations yes
 Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory yes

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT			PRIME MOVER.		
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	1	Thomas B. Frisige.	5	110	45.5	025/1200	Main shaft	High torque Tepton
	1	"	4	110	36.5	1200	Diesel engine	Risher
	1	"	5	110	45.5	1200	"	Risher
EMERGENCY ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) in feet.	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR (shaft driven)	5	1	16	45.5	49	36	N.Y.R. L.C. & M.W.B.	
" " EQUALISER	4	1	16	36.5	49	18		
" " (Diesel driven)	5	1	16	45.5	49	26.5		
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return) in feet.	INSULATION.	PROTECTIVE COVERING.
G.F.B. prof. deck lighting	1	2.5	8	15.5	29	N.Y.R. L.C. & M.W.B.	
" main-deck lighting	1	2.5	8	15.5	29		
" power E.R.	1	16	36.5	49	15		
" main-deck lighting & instruments	1	2.5	10	15.5	29		
" Nav. lighting	1	2.5	15	16.5	29		

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) in feet.	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
Applied from main switchboard lighting E.R.	1	1.5	3.5	9.5	50	N.Y.R. L.C. & M.W.B.	
	1	1.5	3	9.5	29		
Wireless equipment	1	2.5	8	16.5	44		
Applied from G.F.B. navigational instruments							
Alpha signalling lamp	1	1.5	2	9.5	18	N.Y.R. L.C. & M.W.B.	
Search light	1	1.5	1	9.5	7		
Echo ranging device	1	1.5	2	9.5	13		
Direction finder	1	1.5	2	9.5			
Applied from G.F.B. navigation lighting							
Forehead light fore	1	1.5	0.25	9.5	60	N.Y.R. L.C. & M.W.B.	
Starboard side light	1	1.5	0.25	9.5	18		
Port side light	1	1.5	0.25	9.5	10		
Steerlight	1	1.5	0.25	9.5	60		
Signalling light fore	1	1.5	0.25	9.5	84		
Signalling light aft	1	1.5	0.25	9.5	60		
Applied from G.F.B. power E.R.							
Plot plate Woodwatt	1	4	16	22.5	40	N.Y.R. L.C. & M.W.B.	

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) in feet.	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
Applied from G.F.B. power E.R.									
Hydrophobic pump fresh water	1	0.75	1	1.5	6.7	9.5	35	N.Y.R. L.C. & M.W.B.	
Sea water	1	0.75	1	1.5	6.7	9.5	35		
Fuel oil transfer pump	1	1	1	1.5	9.2	9.5	29		
Ventilation fan ports heating	1	Woodwatt	1	1.5	0.9	9.5	39		
Domestic refrigerator	1	0.5	1	1.5	4	9.5	36		

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.

[Signature]

Electrical Contractors. Date

COMPASSES.

Have the compasses been adjusted under working conditions *yes*

DE HAAN & BERLEMANS

Builder's Signature.

Date *20-4-1951*

Have the foregoing descriptions and schedules been verified and found correct *yes*

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 *29-3-1951*

Certificates. Are certificates of test for motors engaged on essential sea 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 installed under special survey in conformity with the Society's Rules and Regulations and in accordance with the approved plans and the Secretary's letter. The materials used are of a good quality and the design and workmanship are good. On completion the equipment has been tried out under full working conditions and found satisfactory. This equipment is in my opinion suitable for a classed vessel having the notation "Carrying Petroleum in Bulk"

Noted J.F. 22.5.51
50

Total Capacity of Generators *14* Kilowatts.

The amount of Fee ... £ *245.-* : When applied for, *80/4 19 51*

Travelling Expenses (if any) £ *78.50:* : When received, *19*

W. H. D. Sluis
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUES 17 JUL 1951*

Assigned *See F.E. mchey opt*

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



© 2021
Lloyd's Register
Foundation