

Rpt. 13.

No. 01716 E

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

31 OCT 1949

Date of writing Report 24-9 1949 When handed in at Local Office 26-9 1949 Port of ROTTERDAM

No. in Survey held at ROTTERDAM Date, First Survey 9-2-49 Last Survey 29-9 1949 (No. of Visits 6)

on the S.S. "EGBERT VINKE" (AM 12) Tons { Gross 355.75 Net 30.80

Built at OSAKA AND R. DAM By whom built OSAKA IRON WORKS LTD. Yard No. When built 1938

Owners. NEDERL. MAATS. VOOR WALVISCHVAART Port belonging to AMSTERDAM

Installation fitted by GROENEVELD VAN DER POLL & CO'S When fitted 9-49

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

Plans, have they been submitted and approved YES System of Distribution two wire insulated system Voltage of Lighting 110

Heating Power NO D.C. or A.C., Lighting direct Power direct 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 YES Generators, are they compound wound YES, 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 YES, 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 and the results found as per Rule

Position of Generators A.R. floor level S.B. side

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 near

generator

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, 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 G.P. fuses and G.P. G.T. switch

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

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule 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 lamps

connected to E through G.P. fuses

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

make of fuses Siemens Br., 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 66%, 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 Machinery spaces: h.l. & M.W.B.

cable fitted on perforated plating on surface accommodation spaces: h.l. cable

clipped to surface on wood grounds on uncovered weather decks: h.l. & M.W.B.

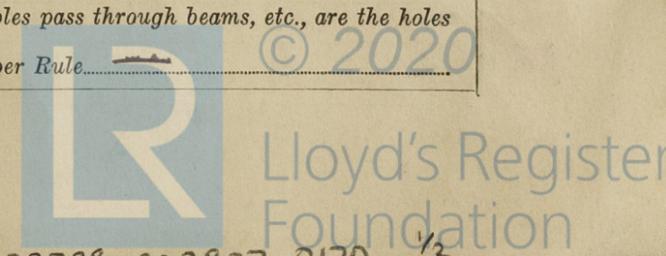
cable run in heavy screwed conduit

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

return clip in to H



Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position 2-lamps near life boats fed by 2-batteries placed on bridge deck Port side

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. lead, 6 cells, make easy, 70 amp. hours 12 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. —

Are all fittings suitably ventilated. Yes

and where are the controlling switches fitted. —

Searchlight Lamps, No. of one, whether fixed or portable. None portable they of the carbon arc or of the filament type. filament

Heating and Cooking, is the general construction as per Rule. —, are the frames effectually earthed. —, 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. — 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. —

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. —, are all fuses of an Approved Cartridge Type. —, make of fuse. — Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. — Are the cables lead covered as per Rule. —

E.S.D., if fitted state maker. — location of transmitter. — and receiver. —

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				TYPE.	PRIME MOVER.	MAKER.
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.			
MAIN	1	Laurens Scott	15	110	135	500	—	—	
EMERGENCY ROTARY TRANSFORMER									

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) in m.	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	15	1	95	135	150	3	N.Y.R.	L.C. & M.W.B.
" " EQUALISER								
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 m.	INSULATION.	PROTECTIVE COVERING.
Navigation distribution box	1	2.5	1.5	15.5	60		
lighting distribution box placed in chart-house also alt. supply navigation box	1	4	5	22.5	60		
lighting distribution box "A" placed aft ship, entrance E.R.	1	4	6	22.5	24	N.Y.R.	L.C. & M.W.B.
lighting distribution box "B" placed midship, Port side	1	4	8	22.5	44		
lighting distribution box "C" placed forward, Starboard side	1	4	7	22.5	70		

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) in m.	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.			
Navigation lights from navigation dist. box							
Starboard side light	1	1.5	0.25	9.5	40		
Port side light	1	1.5	0.25	9.5	44	N.Y.R.	L.C. & M.W.B.
masthead light	1	1.5	0.25	9.5	80		
steerlight	1	1.5	0.25	9.5	70		
From main midboard							
filamentless	1	6	10	29	52		
charging batteries	1	2.5	2	15.5	64		
lighting E.R. and B.R.	1	1.5	6	9.5	40	N.Y.R.	L.C. & M.W.B.
" " " "	1	1.5	6	9.5	40		
" " " "	1	1.5	6	9.5	40		

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) in m.	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.			
From main midboard									
Hydrophane pump	1	0.75	1	2.5	6	15.5	14	N.Y.R.	L.C. & M.W.B.

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. GROFNEVELD, VAN DER POLL & Co.

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions

Builder's Signature.

Date

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 *Hellie Nimke (A.M.H.)*

Plans. Are approved plans forwarded herewith *no* If not, state date of approval *3/10 '49*

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith *no see below*

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

The ships concerned were partly built in Japan and completed in Holland with the exception of the generator which was left of the original installation a quite new equipment has been installed in accordance with the approved plans

The installation was carried out under my supervision in accordance with the Rules. The materials used are of good make and the design and the workmanship are good.

Insulation and other tests have been carried out with satisfactory results in accordance with the Rule requirements. On completion the equipment has been tried out under working conditions and found good.

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

*Noted
 9.5.
 22/12/49*

Total Capacity of Generators *15* Kilowatts.

The amount of Fee ... *£ 263 - -* When applied for, *26/10 19 49*

Travelling Expenses (if any) *£ 2.50 - -* When received, *19*

H. V. D. SLUIS
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 30 DEC 1949

Assigned

*See minute on
 p. 11*