

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
Reg. Book. (No. of Visits 6)

on the 55 "NELLIE VINKE" (AM. II) Tons { Gross 347.8
Net 30.4

Built at OSAKA AND B. DAM By whom built OSAKA IRON WORKS LTD. Yard No. When built 1937
COMPLETED A-DE HOOG

Owners NEDERL. MAATS. VOOR WALVISCH VAART Port belonging to AMSTERDAM

Installation fitted by G. RDENEVELD 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 110 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 — 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 —, 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 See general remarks Have certificates of test for machines under 100 kw. been supplied — and the results found as per Rule —

Position of Generators E.P. 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.P. 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, 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 < 6%, 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 YES 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 girders. On unroofed weather decks: h.l. & M.W.B. cable run in heavy screw 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 —

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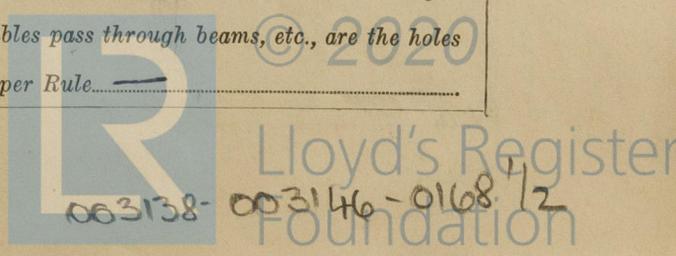
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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position 2-lamps near life boats fed by 2-batteries placed on bridge deck, Port side

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 batteries, 6 cells, make 2 day, 10 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. —

and where are the controlling switches fitted. — Are all fittings suitably ventilated. Yes

Searchlight Lamps, No. of one, whether fixed or portable. semi portable, are they of the carbon arc or of the filament type. filament type

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				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	1	W.A. Allen, Sons & Co	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.	h.c. & h.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 lights distribution box	1	2.5	1.5	15.5	60		
Lighting distribution box placed in chest-house also alt. supply navigation d. box	1	4	5	22.5	60		
Lighting distribution box "A" placed at ship, entrance E.P.	1	4	6	22.5	24		
Lighting distribution box "B" placed midship, Port side	1	4	8	22.5	44		
Lighting distribution box "C" placed foreward, 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.			
From navigation distribution box							
Starboard side light	1	1.5	0.25	9.5	40		
Port side light	1	1.5	0.25	9.5	14		
Forehead light	1	1.5	0.25	9.5	80		
Stern light	1	1.5	0.25	9.5	70		
From main switchboard							
Wireless	1	6	40	20	52		
Charging batteries	1	2.5	2	15.5	64		
Lighting E.P. and B.P.	1	1.5	6	9.5	40		
" " " "	1	1.5	6	9.5	40		
" " " "	1	1.5	6	9.5	40		

ALL IMPORTANT MOTORS TO BE ENUMERATED.

DESCRIPTION.	No.	B.H.P.	Volts.	Ampères.	Revs. per Min.	INSULATION.	PROTECTIVE COVERING.
From main switchboard							
Hydrophane pump	1	0.75	1	2.5	6	15.5	N.Y.R. h.c. & h.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. GROENEVELD VAN DER BOEK & CO.
 ELECTRO-TECHNISCHE LAB.

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 No If so, state name of vessel —

Plans. Are approved plans forwarded herewith No If not, state date of approval 2/10 '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 1949 Rules and the approved plans. 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

P.S.

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

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

Committee's Minute FRI. 30 DEC 1949

Assigned See minute on
J.P. v.H.

2m.9.46.—Transfer. (MADE AND PRINTED IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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