

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

24 SEP 1952

Received at London Office

Writing Report 12-9-1952 When handed in at Local Office 19 Port of Groningen

Survey held at Delfzijl Date, First Survey 17-6-52 Last Survey 28-8-1952 (No. of Visits 8)

on the M/V "BLEKOK" (BLEKOK) Tons Gross 141.52 Net 74.52

at Delfzijl By whom built Fa. Gek. Maken Yard No. 243 When built 8/52

ers. Republik Indonesia Port belonging to Djakarta

Installation fitted by N.V. REM 't H. Cron & Co When fitted 8/52

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

have they been submitted and approved. yes System of Distribution two wire insulated Voltage of Lighting 110

ing. Power 110 D.C. or A.C., Lighting DC Power DC If A.C. state frequency.

ie Movers, has the governing been found as per Rule when full load is thrown on and off. yes Are turbine emergency governors fitted

a trip switch. Generators, are they compound wound. yes (except shaft generator) and level compounded under working conditions. yes

the generators arranged to run in parallel. no Is the compound winding connected to the negative or positive pole. negative

machines 100 kw. and over been inspected by the Surveyors during manufacture and testing. Have certificates of test for machines

r 100 kw. been supplied and the results found as per Rule. Position of Generators D.R. floor level port side

the ventilation in way of generators satisfactory. yes are they clear of inflammable material and protected from mechanical injury and

age from water, steam and oil. yes Switchboards, where are main switchboards placed. D.R. floor level starboard side

they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

and oil. yes, what insulation is used for the panels. dead front type switchboard, if of synthetic insulating

ing, special is it an Approved Type. if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

Rule. Is the construction as per Rule, including locking of screws and nuts. yes Description of Main Switchgear

each generator and arrangement of equaliser switches. DP switch & DP fuses

the switch and fuse gear (or circuit breakers) for each outgoing circuit. DPDT switch & DP fuses

compartments containing switchboards composed of fire-resisting material or lined as per Rule. yes Instruments on main switchboard 2

eters 2 voltmeters. synchronising devices. For compound machines in parallel are the ammeters and reverse current

ection devices connected on the pole opposite to the equaliser connection. Earth Testing, state means provided. earth ind.

m/p for each busbar system. Preference Tripping, state if provided. and tested.

ches, Circuit Breakers and Fuses, are they as per Rule. yes, are the fuses an Approved Type. yes (KEMA approved)

of fuses. Glasmeyer & Weber, are all fuses labelled. yes If circuit breakers are provided for the generators, at what

oad do they operate. and at what current do the reverse current protective

es operate. Cables, are they insulated and protected as per Rule. yes

erwise than as per Rule are they of an Approved Type. state maximum fall of pressure between bus bars and any point

r maximum load. < 4% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends.

all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical

age. yes, are any cables laid under machines or floorplates. no, if so, are they adequately protected. State

of cables (if in conduit this should also be stated) in machinery spaces. MICE & L&MWB, galleys. MICE

audries. State how the cables are supported or protected. Machinery spaces: CC or

C & MWB cable clipped to perforated plating

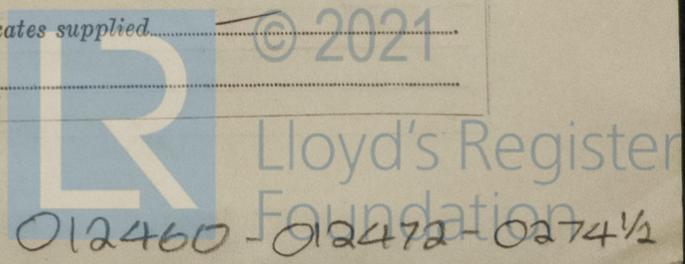
all lead sheaths, armouring and conduits effectually bonded and earthed. yes Are all cables passing through decks and watertight

heads provided with deck tubes or watertight glands. yes, where unarmoured cables pass through beams, etc., are the holes

ively bushed. yes Refrigerated chambers, are the cables and fittings as per Rule.

refrigeration fan motors been constructed under survey. and test certificates supplied.

of Ships the motors accessible for maintenance at all times.



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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, Yes

Navigation Lamps, are they separately wired. Yes controlled by separate double pole switches and fuses. Yes Are the switches a position accessible only to the officers on watch. Yes, is an automatic indicator fitted. Yes Is an alternative supply provided.

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule. Yes, state battery ampere hours. Yes Where required to do so does it comply with 1948 International Convention.

Lighting, is fluorescent lighting fitted. No If so, state nominal lamp voltage. Yes and compartments where lamps are fitted.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof.

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

Heating and Cooking, is the general construction as per Rule. Yes, are the frames effectually earthed. Yes, are they of the accommodation of the convection type. Yes Motors, are all motors constructed and installed as per Rule and placed in

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

compartment. Yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing. Yes Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule.

Lightning Conductors, where required are they fitted as per Rule. Yes

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships with Yes, are all fuses of an Approved Cartridge Type. Yes, make of fuse. Yes Are the fittings in engine

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. Yes Are all cables lead covered as per E.S.D., if fitted state maker. Yes location of transmitter and receiver. Yes

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.
			Kw. per Generator.	Volts.	Amps.	Revs. per Min.		
MAIN ...	1	Smit Slikerveer	12.5	115	109	1000	Diesel	Kromhout
	1	"	10	115	87	900	Shaftdriven	Werkspooldriven
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return 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 (Diesel driven)	1	12.5	1	32	109	170	32	M1	CC
" " EQUALISER (Shaft driven)	1	10	1	25	87	150	24	M1	CC
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Kw.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	In the Circuit.			

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return 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.			
FROM MAINSWITCH BOARD							
Diesel driven or shaft driven generator alternator	1	3.2	2	30	46		
navigation lighting A	1	5	22	58	46		
lighting bridge space & fore	1	5	18	58	16	M1	CC
lighting aft & L.R.	1	5	18	58	16	M1	CC
lighting main deck & L.R.	1	5	18	58	16	M1	CC
ceptacle for portable boat winch	1	3.2	25	30	16		
equipment	1	5	18	58	34		
FROM DEB NAVIGATION LIGHTING							
headlight fore 1	1	1.5	0.4	9.5	24		
" " 2	1	1.5	0.4	9.5	20	VIR	HR type
" " 3	1	1.5	0.4	9.5	16	VIR	LC & MWB
light	1	1.5	0.4	9.5	16	VIR	LC & MWB
light	1	1.5	0.4	9.5	12	VIR	LC & MWB
light	1	1.5	0.4	9.5	8	VIR	LC & MWB
gnawing light	1	1.5	0.4	9.5	80	M1	CC
light	1	1.5	0.4	9.5	80	VIR	LC & MWB

DESCRIPTION.	No.	B.H.P.	MOTOR CABLES.	
			CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.
FROM MAINSWITCH BOARD				
transfer pump	1	1	3.2	8.5, 30, 36
hydraulic pump	0.64	1	3.2	6.1, 30, 32
accomm aft	0.37kW	1	3.2	4.8, 30, 30
fore	0.56kW	1	3.2	6.7, 30, 40
winch pump	6	1	10	46, 24, 20
generator only	2.5	1	8	20, 80, 18
FROM DEB C				
waterhydraulic pump	0.5	1	3.2	4.8, 30, 34
"	0.74kW	1	3.2	9.4, 30, 12
FROM DEB B				
refrigerator	0.175	1	3.2	1.8, 30, 12
"	0.175	1	3.2	1.8, 30, 14

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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. Rotterdamsche Electriciteits Mij
v/h H. CROON & Co.

DIR.

Electrical Contractors.

Date 12.9.52

COMPASSES.

Have the compasses been adjusted under working conditions... *yes*

Fa. GEBR. NIESTERN & Co.

Builder's Signature.

Date 12.9.52

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... *"Pango" de klas C0100*

Plans. Are approved plans forwarded herewith... *no* If not, state date of approval... *24-12-51*

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

General Remarks. (State quality of workmanship and materials, 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 the approved plans or equivalent sheets. - 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 in my opinion suitable for a Classed vessel.

Noted 10.9-10-52

Total Capacity of Generators... *22.5* Kilowatts.

The amount of Fee ... *fl. 315.-* : When applied for, *12.9.1952*

Travelling Expenses (if any) *fl. 37.-* : When received, *19*

Wall
Surveyor to Lloyd's Register of Shipping.

Committee's Minute... **TUES. 14 OCT 1952**

Assigned... *Su F.E. mschy. rpt.*

2011.8.50.—Transferor. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

26.9.52



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