

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

5-MAR 1956

Received at London Office

Date of writing Report 10th Jan 1956 When handed in at Local Office _____ 19____ Port of Rotterdam

No. in Survey held at Zaltbommel Date, First Survey 20-10-53 Last Survey 3-1-1956
Reg. Book. _____ (No. of Visits 15)

35099 on the M/S "GILI RADJA" Tons { Gross 1012.57
Net 449.33

Built at Zaltbommel By whom built N.V. Scheepw. "De Waal" Yard No. 652 When built 1956

Owners Republik Indonesia Port belonging to Kilianget

Installation fitted by Herman G. Bekels N.V. When fitted 1956

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No 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 220

Heating Power 220 D.C. or A.C., Lighting DC Power DC 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

Are the generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole Negative

Have machines 100 kw. and over 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 Yes Position of Generators Eng. rm. Port & stbd.

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 Eng. rm. Forward

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 Metal clad 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 Triple pole contactor circuit breaker, with third pole as equaliser connection. Fitted with O/H, Rev. Am. & U.V. protection.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D/P switch and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 10 ammeters 2 voltmeters _____ synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided Earth lamps Preference Tripping, state if provided No, and tested _____

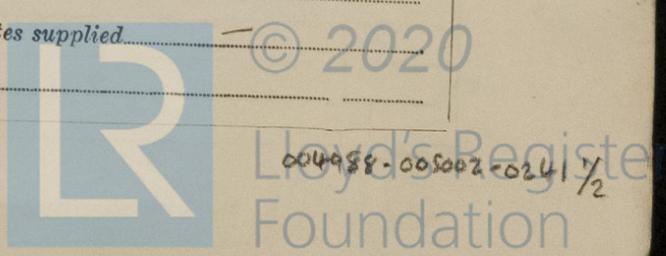
Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes make of fuses Hazemeyer & Weber, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate -ve pole 100% inst +ve pole 50% with time lag, and at what current do the reverse current protective devices operate 0-15% FL. 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 Under 6% volts. 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 Yes, if so, are they adequately protected Yes State type of cables (if in conduit this should also be stated) in machinery spaces VK NR Type; VCLCB, galleys VKLC-MWB and laundries _____ State how the cables are supported or protected Machinery Spaces: Chopped to steel tray or in conduit. Accommodations: " " wood grout or in 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 _____

Have refrigeration fan motors been constructed under survey _____ and test certificates supplied _____

Are the motors accessible for maintenance at all times _____



Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position Emergency generator in compartment boat deck aft.

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, fitted and adequately ventilated as per Rule. Yes, state battery capacity in ampere hours. 1 Where required to do so does it comply with 1948 International Convention. Yes

Lighting, is fluorescent lighting fitted. No If so, state nominal lamp voltage. 110 and compartments where lamps are fitted. Engine room, Forepeak, Main Deck, etc.

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

Searchlights, No. of 1, 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 heaters in the accommodation of the convection type. Yes 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. Yes

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule. Yes

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

E.S.D., if fitted state maker. Kelvin Hughes location of transmitter and receiver. In Sp. 31-32

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.	
			Kw per Generator.	Volts.	Amps.	Revs. per Min.	TYPE.	MAKER.
MAIN	3	Hansa	80	220	364	1100	IC	Ruston & Hornsby Ltd.
EMERGENCY ROTARY TRANSFORMER	1	Hansa	18	220	82	1000	IC	Ruston & Hornsby Ltd.

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	3	80	1	185	364	361	25	VC	LC.B
" " EQUALISER	1		1	150		313	12.5	"	"
EMERGENCY GENERATOR	1	18	1	70	82	90	7.5	VIR	HR Type

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

DESCRIPTION.	No. of	Kw.	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 feet).	INSULATION.	PROTECTIVE COVERING.
Aux ^l & Emerg ^l Switchboard.	1		1	70	80	90	47	VIR	HR Type

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

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DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.		
			In the Circuit.	Rule.					
From Aux. Sw. Bd.									
Lighting. Accom. aft	3/16	A	1	25	5	9	28	VIR	HR Type
" " "	B		1	4	9	15	25	"	"
" " Midships	C		1	6	18	21	70	"	"
" " Bridge Deck	E		1	6	18	21	85	"	"
" Navigation	F		1	4	1	15	85	"	"
" Forepeak	G		1	4	13	15	112	"	"
" Eng. Rm	S		1	1.5	4.5	5	40	"	"
" " "	T		1	1.5	4	5	40	"	"
Power Ventilation aft	K		1	10	81	28	25	"	"
" " Midships	L		1	4	7	15	70	"	"
" Workshop	M		1	4	16	15	35	"	"
" Radio	J		1	4	10	15	85	"	"
" Sanitary	H		1	2.5	6	9	10	"	"
" Eng. Domestic	R		1	1.5	3	5	30	"	"
Lighting Eng. Rm. Emerg ^l	V		1	1.5	0.5	5	12	"	"
From main sw. bd.									
Power Winches Fore	S/B	X	1	70	120	194	101	VC	LC.B
" " aft	Y		1	70	160	194	114	"	"
" Eng. Rm. Port	P		1	95	192	235	8	"	"
" " Starboard	Z		1	95	159	235	8	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	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 feet).	INSULATION.	PROTECTIVE COVERING.
From Main Sw. Bd.									
Steering gear	2	3.5	1	6	15.2	21	38	VIR	HR Type
From S.B. "X"									
Winches	4	15	1	25	58	67	40	"	"
Landlass	1	30	1	70	115	150	10	"	"
From S.B. "Y"									
Winches	4	25	1	50	95	120	61	"	"
From S.B. "Z"									
3.0. Transfer Pump	1	3.6	1	4	15.2	15	21	"	"
" " "	1	1.5	1	2.5	6.6	9	19	"	"
Fuel Valve Cooling Pump	1	0.5	1	1.5	2.45	5	18	"	"
Air Pump Set	1	12.2	1	35	48	55	38	"	"
G.S. " "	1	11	1	25	42.5	44	10	"	"
F.W. Cooling Pump	1	9	1	25	35	44	25	"	"
Air Compressor	1	14.5	1	50	57.5	71	24	"	"
From S.B. "P"									
Air Compressor	1	14.5	1	50	57.5	71	36	"	"
Capstan	1	12.5	1	50	48	71	41	"	"
S.W. Cooling Pump	1	9	1	25	35	44	12	"	"
D.V. Cooling Pump	1	0.5	1	1.5	2.45	5	15	"	"
L.O. Pump Spare	1	8	1	16	32	34	31	"	"
G.S. Pump	1	11	1	25	42.5	44	9	"	"
F.W. Cooling Pump	1	9	1	25	35	44	15	"	"
Air Pump Set	1	12.2	1	35	48	55	19	"	"
From S.B. "K"									
Vent ⁿ Accom.	1	2.5	1	4	10.8	15	12	"	"
" Eng. Rm.	2	2	1	25	8.8	9	14	"	"
From S.B. "L"									
Vent ⁿ Accom.	1	0.5	1	2.5	5.5	9	12	"	"

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.

HERMAN G. EELAND
Herman G. Eeland
 Electrical Contractors. Date 19-1-56

COMPASSES.

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

SCHIEPBOER DE WAAL N.V.
J. J. Schiepboer

Builder's Signature Date 16th Jan 1956

Have the foregoing descriptions and schedules been verified and found correct.....

Is this installation a duplicate of a previous case Yes If so, state name of vessel M/S Giliyang & M/S Giligentang

Plans. Are approved plans forwarded herewith No If not, state date of approval 16-2-55

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 in accordance with the Secretary's letter and the approved plans or the equivalent thereto.

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.

Total Capacity of Generators 258. Kilowatts.

The amount of Fee ... £ 8.88. = When applied for, 28.2 19.56
 Travelling Expenses (if any) £ 95. = When received, 19.

achairy
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... TUESDAY 27 MAR 1956

Assigned S. Rpt. 4 C.

2m. 4.55 - Transfer. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)



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