

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

56 OCT 1955

Date of writing Report 6th Sept. 1955 When handed in at Local Office _____ 19____ Port of Rotterdam

No. in Survey held at Zaltbommel Date, First Survey 20-10-53 Last Survey 18-8-1955
Reg. Book. _____ (No. of Visits 23)

33585 on the m/s "GILI GENTENG" Tons { Gross 1012.30
Net 450.14

Built at Zaltbommel By whom built N.V. Scheepw. "De Waal" Yard No. 651 When built 1955

Owners Republiek Indonesia Port belonging to Kaliangket

Installation fitted by Herman C. Schels N.V. When fitted 1955

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 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, 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 op., rev. cur. & 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 Hagerman & Weber, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate -ve pole 100% with +ve pole 50% with time lag, and at what current do the reverse current protective devices operate 10-15% P.L.

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 VIR 11th type; VCLCB, galleys VIR LCMWB

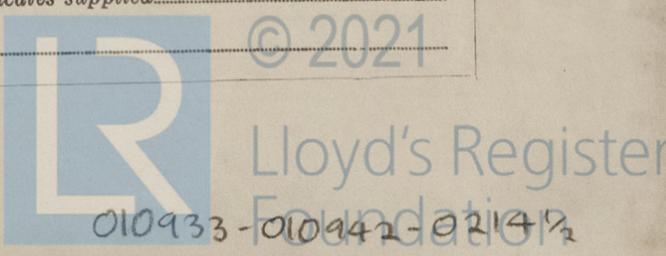
and laundries — State how the cables are supported or protected Machinery Spaces: Clipped to steel tray or in conduit

Accessories — " :- Clipped to wood grounds 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. 110.

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. 110. 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. 3. 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.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	3	Hansa	80	220	364	1100	I.C.	Ruston & Hornsby Ltd.
EMERGENCY ROTARY TRANSFORMER	1	Hansa	18	220	82	1000	I.C.	Ruston & Hornsby Ltd.

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA-TION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. mm. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	3	80	1	185	364	361	25	VC	LCB
" EQUALISER	1		1	150		313	12.5	"	"
EMERGENCY GENERATOR	1	18	1	70	82	90	7.5	VIR	1st 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. mm. or sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULA-TION.	PROTECTIVE COVERING.
Aux. A. Emerg. Switchboard.	1	70	1	80	90	47	VIR	1st type.

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

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. mm. or sq. mm.	MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA-TION.	PROTECTIVE COVERING.
			In the Circuit.	Rule.			
From Aux. Sw. Bd.							
Lighting accom. aft.	1	2.5	5	9	28	VIR	1st type.
" " "	1	4	8	15	25	"	"
" " Midship.	1	6	18	21	70	"	"
" " Bridge etc.	1	6	18	21	85	"	"
" Navigation	1	4	1	15	85	"	"
" Foreship	1	4	1.3	15	112	"	"
" Eng. Rm.	1	1.5	4.5	5	40	"	"
" " "	1	1.5	4	5	40	"	"
Power Vent. aft.	1	10	31	23	25	"	"
" " Midship.	1	4	7	15	70	"	"
" Workshop.	1	4	16	15	35	"	"
" Radio	1	4	10	15	85	"	"
" Sanitary	1	2.5	6	9	10	"	"
" Eng. Domestic	1	1.5	3	5	30	"	"
Lighting Eng. Rm. Long.	1	1.5	0.5	5	12	"	"
From Main Sw. Bd.							
Power Winches fwd.	1	70	120	194	101	VC	LCB
" " aft.	1	70	160	194	14	"	"
" Eng. Rm. Port	1	70	192	194	8	"	"
" " " Starboard	1	70	159	194	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. mm. or sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULA-TION.	PROTECTIVE COVERING.	
From Main Sw. Bd.									
Steering Gear.	2	3.5	1	6	15.2	21	38	VIR	1st type.
From S.B. "X"									
Winches.	4	15	1	25	58	67	40	"	"
Windlass.	1	30	1	70	115	150	10	"	"
From S.B. "Y"									
Winches.	4	25	1	50	95	120	61	"	"
From S.B. "Z"									
F.O. 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	"	"
C.W. Pump Set.	1	12.2	1	35	48	55	38	"	"
L.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	60	48	71	41	"	"
S.W. Cooling Pump.	1	9	1	25	35	44	12	"	"
Fuel Valve Cooling Pump.	1	0.5	1	1.5	2.45	5	15	"	"
L.O. Pump Spare.	1	8	1	16	32	34	31	"	"
L.S. Pump.	1	11	1	25	42.5	44	9	"	"
F.W. Cooling Pump.	1	9	1	25	35	44	15	"	"
C.W. Pump Set.	1	12.2	1	35	48	55	19	"	"
From S.B. "K"									
Vent. Accom.	1	2.5	1	4	10.8	15	12	"	"
" Eng. Rm.	2	2	1	2.5	8.8	9	14	"	"
From S.B. "L"									
Vent. Accom.	1	1.25	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. EEKELS N.V.

Electrical Contractors. Date 19.9.55

COMPASSES.

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

SCHEEPSWERF DE W. J. VAN DER BEEK

Builder's Signature. Date 23.9.55

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... m/s "Giliyang"

Plans. Are approved plans forwarded herewith... No. If not, state date of approval... 16th March, 1955

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 equivalent hereto.

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 ... £ 888 = When applied for, 3/10. 1955

Travelling Expenses (if any) £ 240 = When received, 19

alchailus
 Surveyor to Lloyd's Register of Shipping.

FRIDAY 25 NOV 1955

Committee's Minute.....

Assigned See Rpt. 46.

Im. 7.54.—Transfer. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)



© 2021

Lloyd's Register Foundation