

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

31 JAN 1955

Date of writing Report 29th Dec. 1954 When handed in at Local Office \_\_\_\_\_ 19\_\_\_\_ Port of Rotterdam

No. in Survey held at Zaltbommel Date, First Survey 16-2-53 Last Survey 7-12-1954  
 Reg. Book. \_\_\_\_\_ (No. of Visits 20)

90176s on the m.s. GILITANG. Tons { Gross 997.09  
 Net 454.35

Built at Zaltbommel By whom built N.V. Schipsn. "De Waal" Yard No. 650 When built 1954

Owners Perusahaan Garam dan Soda Negeri Port belonging to Kalianget

Installation fitted by Herman G. Bekels N.V. When fitted 1954

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. fwd.

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 Single pole contact circuit breaker with third pole as equaliser connection fitted with O/L 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 \_\_\_\_\_

Safety lamp. Preference Tripping, state if provided \_\_\_\_\_, 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 10-15% FL and at what current do the reverse current protective devices operate \_\_\_\_\_

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 HL type - VCLCA, galleys VIRLCMB

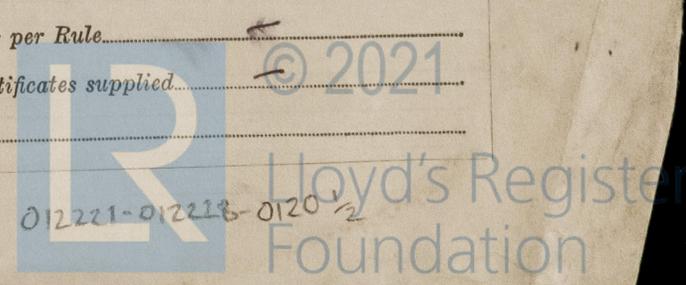
and laundries \_\_\_\_\_ State how the cables are supported or protected \_\_\_\_\_

Machinery Spaces :- Clipped to steel tray or in conduit.  
Accessories :- " " " 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 effectually 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 shell deck aft.

Navigation Lamps, are they separately wired Yes, controlled by separate double pole switches and fuses Yes. Are the switches and fuses 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 ampere hours                     . 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                      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 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                     . 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 Reliance Hughes location of transmitter and receiver Reliance 7. 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	Diesel	Rollon & Hornsby.
EMERGENCY ROTARY TRANSFORMER	1	Hansa	18	220	82	1000	"	"

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. mm. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	3	80	1	185	364	396	22	VC	LCB.
" " EQUALISER			1	120		292	11	"	"
EMERGENCY GENERATOR	1	18	1	25	82	108	7.5	"	"

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

DESCRIPTION.	No. of	Kw.	Sectional Area or No. and Dia. of Strands. Sq. mm. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Aux & Emergency Switchboard.	1	70	85	125	17	17	VIR	HR type.

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

DESCRIPTION.	D.F.B.	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. mm. or sq. mm.	In the Circuit.	Rule.			
from Aux. Switchboard.	A	1	2.5	7	15.5	11	VIR	HR type.
Lighting Accom. aft.	B	1	4	9	22.5	17	"	"
" " Midship.	C	1	4	9	22.5	50	"	"
" " Bridge Deck.	E	1	4	14	22.5	60	"	"
Navigation	F	1	4	1	22.5	75	"	"
Foreship.	G	1	4	1	9.5	40	"	"
Eng. Rm.	S	1	1.5	5	9.5	40	"	"
" " "	T	1	1.5	3.5	9.5	17	"	"
" " "	K	1	6	28	29	30	"	"
Power. Ventilation aft.	M	1	4	8	22.5	50	"	"
Workshop	L	1	6	7	15.5	22	"	LCMUB.
Ventilation Unit.	H	1	2.5	4	22.5	60	"	"
Engine Rm.	D	1	4	10			"	LCB
Radio equip.								
from main Switchboard.	X	1	70	120	212	80	VC	LCB
Power. Winches. Fore.	Y	1	70	160	212	14	"	"
" " Aft.	P	1	70	184	212	8	"	"
Eng. Rm. Fore.	Z	1	70	176	212	8	"	"
" " Starboard.								

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	Sectional Area or No. and Dia. of Strands. Sq. mm. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.	
Steering gear.	2	3.5	1	6	15	29	38	VIR	HR type.
from SB "X"	4	15	1	25	58	63	40	"	"
Winches	1	30	1	50	115	120	10	"	"
Windlass									
from SB "Y"	4	25	1	50	96	99	44	"	"
Winches									
from SB "Z"	1	1.5	1	1.5	6.6	9.5	15	"	"
F.O. Transfer Pump.	1	0.5	1	1.5	2.5	9.5	17.5	"	"
Fuel Valve Cooling Pump.	1	12.5	1	25	50	63	62	"	"
Capslan	1	11	1	16	42.5	49	8	"	"
G.S. Pump.	2	9	1	16	35	49	20	"	"
C.W. Pumps.	1	12.2	1	25	49	63	23	"	"
C.W. Pump.	1	14	1	35	58	78	19	"	"
Air Compressor.									
from SB "P"	1	12	1	35	58	78	27	"	"
Air Compressor									
F.O. Transfer Pump.	1	3.6	1	4	15.2	22.5	26	"	"
Fuel Valve Cooling Pump.	1	0.5	1	1.5	2.45	9.5	15	"	"
from SB "Q"	1	8	1	10	32	38	15	"	"
Aux. L.O. Pump.	1	11	1	16	42.5	49	8	"	"
G.S. Pump.	1	9	1	16	35	49	12	"	"
C.W. "	1	12.2	1	25	49	63	14	"	"
C.W. "									
from SB "K"	1	2.5	1	2.5	10	15.5	12	"	"
Vent from Accom.	2	2.5	1	1.5	8.8	9.5	8	"	"
" " Eng. Rm.									

NOTE.—Use Rpt. 43 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. EKKO N.V.

Electrical Contractors.

Date 6th Jan '55.

COMPASSES.

Have the compasses been adjusted under working conditions Yes

SCHIEPSMETER "DE WAAL" N.V.

Builder's Signature.

Date 10-1-'55.

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 15 June 1954 9 November 1954

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

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 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 268 Kilowatts.

The amount of Fee ... £ 888 - : When applied for, 28.1. 1955

Travelling Expenses (if any) £ 176 - : When received, 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUESDAY 22 FEB 1955

Assigned See Rpt. 46.

3m.1251 - 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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