

Rpt. 13.

No. 28246

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 9 January 1953 When handed in at Local Office 9 January 1953 Port of Antwerp
 No. in Survey held at Genneuxen Date, First Survey 4-9-52 Last Survey 6-12-52
 Reg. Book. (No. of Visits 8)
 on the M/V "GERRY S"
 Built at Genneuxen By whom built Genneuxense Scheepsbouw Maatschappij Yard No. 54 When built 1952
 Owners Genneuxen Port belonging to Genneuxen
 Installation fitted by A. De HOOP N.V. When fitted 1952
 Is vessel equipped for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. Yes Radar Yes

Plans, have they been submitted and approved Yes System of Distribution Two Wire Voltage of Lighting 110V
 Heating Yes Power Yes D.C. or A.C., Lighting DC Power Yes If A.C. state frequency Yes
 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 Yes Generators, are they compound wound Yes, and level compounded under working conditions Yes
 if not compound wound state distance between generators Yes from switchboard Yes Are the generators arranged to run in parallel No, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole negative
 Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Yes Have certificates of test for machines under 100 kw. been supplied Yes and the results found as per Rule Yes
 Position of Generators 1 Aux driven PS Eng Room lower platform and 1 ME shaft driven PS after
 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 top of ME room PS after

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 Percite
 material is it an Approved Type Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Yes 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 double pole tumbler switches

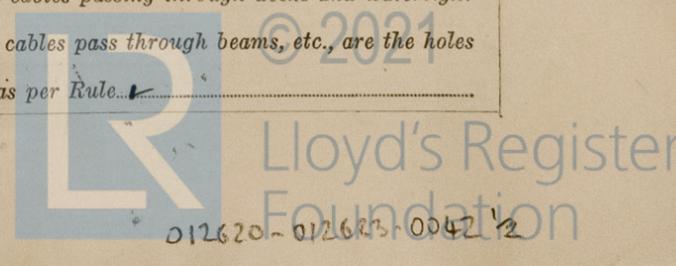
and the switch and fuse gear (or circuit breakers) for each outgoing circuit double pole tumbler switches
fuses of approved type

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 3 each
 ammeters 3 voltmeters 3 synchronising devices Yes For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided lamps

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes
 make of fuses Haremeyer, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate Yes, and at what current do the reversed current protective devices operate Yes

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 Yes
 state maximum fall of pressure between bus bars and any point under maximum load 3V, 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 cotton 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 Yes Are cables in machinery spaces, galleys, lavatories, etc., lead covered Yes, or run in conduit Yes
 or of the "HR" type Yes State how the cables are supported or protected tray

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 Yes



Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule *yes* Emergency Supply, state position

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 *225 amp/h (for 20 hrs working)*

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 *fixed*, are they of the carbon arc or of the filament type *filament*

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 *✓*

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 *motor compartment* *yes* 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 *yes*

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 *Not supplied*

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	Higgs	12	110	109	1200	driven by 2 cyl diesel motor (Lister)	
	1	Higgs	12	110	109	1000/1500	ME shaft driven	
EMERGENCY ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	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	12	1	70 mm ²	109		8.5m	VIR	CC. armoured
" " EQUALISER	12	1	70 mm ²	109		13m	"	"
EMERGENCY GENERATOR								
ROTARY TRANSFORMER MOTOR GENERATOR								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.) FROM MAIN SWITCHBOARD.

DESCRIPTION.	No.	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.
To Sectionboard A	1	2x4 mm ²	20	18m	VIR	CC. armoured
to sectionboard B	1	2x4 mm ²	20	12m	"	"
to sectionboard (Navigation)	1	2x4 mm ²	20	22m	"	"
to sectionboard (Nautical)	1	2x4 mm ²	20	17m	"	"
Radio installation	1	2x4 mm ²	20	14m	"	"

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES. from section boards.

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.			
Sectionboard A	8	2x1 1/2 mm ²	10			VIR	lead covered ORLK cable
Sectionboard B	8	2x1 1/2 mm ²	10			"	"
Navigationboard	6	2x1 1/2 mm ²	10			"	"
Nautical sectionboard	5	2x1 1/2 mm ²	10			"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Lubricating oil pump	1	3	1 2x1x10 mm ²	60	19m	VIR	CC. arm.
Oil fuel transfer pump	1	1	1 2x2.5 mm ²	20	13m	"	"
Steering engine	1	4	1 2x1x10 mm ²	60	18m	"	"
Steamline filter	1	5	1 2x1x16 mm ²	60	22m	"	"
S.W. Cooling pump	1	4.3	1 2x1x10 mm ²	60	18m	"	"



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The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules. ^{from section boards.}

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.

Sectionboard A
 Sectionboard B
 Navigationboard
 Nautical sectionboard

8 2 x 1/2" x 10
 2 2 x 1/2" x 10
 6 2 x 1/2" x 10
 5 2 x 1/2" x 10

VIR. lead covered ORK cable

Electrical Contractors. Date 14-1-53

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 If so, state name of vessel

Plans. Are approved plans forwarded herewith If not, state date of approval 22 April 1952

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

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical equipment of this vessel has been examined and tested in accordance with the Rule requirements and found satisfactory. The workmanship found to be of good quality.

Lubricating oil pump	1	3	1	2 x 1/2" x 10	19 m	VIR	RC	Comm.
Oil fuel transfer pump	1	1	1	2 x 1/2" x 10	13 m	"	"	"
Steering engine	1	4	1	2 x 1/2" x 10	18 m	"	"	"
Steering motor	1	5	1	2 x 1/2" x 10	22	"	"	"
S.W. Cooling pump	1	4.3	1	2 x 1/2" x 10	18	"	"	"

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.)

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... fr. 3500.- : When applied for, 27.2.1953
 Travelling Expenses (if any) fr. 1327.- : When received, 19

M. J. 005.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 10 APR 1953

Assigned See F.E. mchey, rpt.