

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report _____ 19____ When handed in at Local Office 3rd Jan. 1952 Port of MIDDLESBROUGH JAN 1952
 No. in Survey held at SOUTHBANK-ON-TEES Date, First Survey 3. 7. '51 Last Survey 16. 12. 1951
 g. Book. _____ (No. of Visits 17)
15786 on the S.S. "GENOTA" Tons { Gross _____
 Net _____
 Built at SOUTHBANK-ON-TEES By whom built SMITH'S DOCK CO. LTD. Yard No. 1214 When built 1951
 Owners N.Y. CURACAOSCHE SCHEEPY. MAATS. Port belonging to WILLEMSTAD.
 Installation fitted by RICHARD PICKERSGILL & SONS LTD. When fitted 1951
 Is vessel equipped for carrying Petroleum in bulk YES Is vessel equipped with D.F. - E.S.D. - Gy.C. - Sub.Sig. - Radar LEADS ONLY

Plans, have they been submitted and approved YES System of Distribution TWO WIRE Voltage of Lighting 110
 Feeding 110 Power 110 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,
 if not compound wound state distance between generators - and from switchboard - 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 - Have certificates of
 test for machines under 100 kw. been supplied YES and the results found as per Rule YES

Position of Generators FOREWARD, STARBOARD, INBOARD & OUTBOARD ON ENGINE ROOM STARTING PLATFORM
 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 ON RAISED PLATFORM
FORE AND AFT STARBOARD SIDE ADJACENT TO GENERATORS.

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 SINDANYO EBONY FINISH, if of synthetic insulating
 material is it an Approved Type YES, 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 DOUBLE POLE DOUBLE THROW AND DOUBLE POLE
ANGLE THROW QUICK BREAK KNIFE SWITCHES ALL THROUGH DOUBLE POLE FUSES.

Is the switch and fuse gear (or circuit breakers) for each outgoing circuit DOUBLE POLE DOUBLE THROW
QUICK BREAK KNIFE SWITCH AND DOUBLE POLE FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 2
 meters 2 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reversed current
 protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided
EARTH LAMPS COUPLED TO EARTH THROUGH SWITCHES AND FUSES.

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES,
 type of fuses SIEMENS 'Z', are all fuses labelled YES If circuit breakers are provided for the generators, at what
 load do they operate -, and at what current do the reversed current protective devices operate -

Control Boxes, Section Boards and Distribution Boards, is the construction as per Rule YES,
 are they insulated and protected as per Rule YES, if otherwise than as per Rule are they of an Approved Type -

Is the maximum fall of pressure between bus bars and any point under maximum load < 6.6 VOLTS, 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 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 Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit -

Are cables of Ayrotenax type YES State how the cables are supported or protected GENERATOR MAINS CLIPPED TO SOLID
STEEL PLATES ENGINE ROOM CABLES CLEATED TO PERFORATED STEEL TRAY PLATE.
FOREWARD MAINS IN M.S. PLUMBERS PIPE ALONG DECK. L.C. CABLES IN ACCOMMODATION
DECKED TO WOOD GROUNDS.

Are all lead sheaths, armouring and conduits effectually bonded and earthed YES Are all cables passing through decks and watertight
 openings provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holes
 adequately bushed YES Refrigerated chambers, are the cables and fittings as per Rule -

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule **YES**. Emergency Supply, state position **ENGINE ROOM - AUTOMATIC ON FAILURE OF 110 VOLT SUPPLY.**

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 **40.12 AH.**

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 **YES**.

if so, how are they protected **'WIGAN', 'TELFORD GRIER MCKAY', 'CAMPBELL & ISHERWOOD' & 'VICTOR PRODUCTS' FLAMEPROOF FITTINGS.** and where are the controlling switches fitted **OFFICERS QUARTERS MIDSHIPS.** Are all fittings suitably ventilated **YES**.

Searchlight Lamps, No. of **—**, whether fixed or portable **—**, are they of the carbon arc or of the filament type **—**.

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 **—**. 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 **—**. 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 **—**.

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

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 **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			Revs. per Min.	PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Amperes.		TYPE.	MAKER.
MAIN ...	2	SUNDERLAND FORGE	25	110	227		STEAM.	SUNDERLAND FORGE Nº5
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 ...	25	1	37/042	227	260	50	V.C.	L.C.A.+B.
" " EQUALISER ...	25	1	37/042	227	260	60	V.C.	L.C.A.+B.
EMERGENCY GENERATOR ...								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR...								

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

DESCRIPTION.	No.	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.
MAIN SWITCHBOARD TO MIDSHIPS. S.B.1.	1	37/042	113.3	260	570	V.C.	L.C.A.+B.
S.B.1 TO NAVIGATING BRIDGE LTG. D.B.1	1	7/044	26	31	81	V.I.R.	L.C.
S.B.1 TO MIDSHIPS ACCOM. LTG. PORT. D.B.2	1	7/044	13	31	9	V.I.R.	L.C.
S.B.1 TO MIDSHIPS ACCOM. LTG. STBD. D.B.3	1	7/044	30	31	9	V.I.R.	L.C.
S.B.1 TO BRIDGE SECTION BD. S.B.2	1	7/044	16.0	31	90	V.I.R.	L.C.
S.B.2 TO WIRELESS	1	7/064	5.0	15	70	V.I.R.	L.C.
S.B.1 TO CARGO LIGHTING. FWD. D.B.9.	1	7/044	19.0	31	9	V.I.R.	L.C.
S.B.1 TO PANTRY D.B.10	1	7/044	10.0	31	60	V.I.R.	L.C.
S.B.1 TO NAVIGATION C.O. SWITCH.	1	7/044	3.0	31	90	V.I.R.	L.C.
S.B.2 TO NAVIGATION C.O. SWITCH.	1	7/044	3.0	31	6	V.I.R.	L.C.
C.O. SWITCH TO NAVIGATION INDICATOR.	1	7/044	3.0	31	3	V.I.R.	L.C.
D.B.1 TO BRIDGE LIGHTING. D.B.12	1	7/044	5.0	31	6	V.I.R.	L.C.

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

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.			
SHORE CONNECTION TO MAIN SWITCHBOARD	1	37/042	250	260	180	V.C.	L.C.A.+B.
MAIN SWITCHBOARD TO WORKSHOP. S.B.5	1	19/064	53	83	150	V.I.R.	L.C.A.+B.
MAIN SWITCHBOARD TO AFT. S.B.3	1	19/064	115	143	80	V.C.	L.C.A.+B.
S.B.3 TO EMERGENCY LGHT. PANEL	1	7/064	5	46	42	V.I.R.	L.C.A.+B.
S.B.3 TO CREWS LGHT. PORT. D.B.4	1	7/064	29	46	150	V.I.R.	L.C.
S.B.3 TO CREWS LGHT. STBD. D.B.5	1	7/064	45	46	81	V.I.R.	L.C.
S.B.3 TO CARGO LGHS AFT. D.B.6	1	7/029	3	15	165	V.I.R.	L.C.
D.B.5 TO GALLEY D.B.11.	1	7/064	16.1	46	60	V.I.R.	L.C.
MAIN SWITCHBOARD TO ENG. RM. LGHT. D.B.7	1	7/044	20	31	18	V.I.R.	L.C.A.+B.
MAIN SWITCHBOARD TO BOILER RM. D.B.8	1	7/044	18	31	12	V.I.R.	L.C.A.+B.
MAIN SWITCHBOARD TO MACH. SPACE. S.B.4	1	7/064	66	80	18	V.C.	L.C.A.+B.
D.B.10 TO PERCOLATOR. 500 W.	1	3/036	4.5	10	30	V.I.R.	L.C.
D.B.10 TO D.A.R. BRIDGE 500 W.	1	3/036	4.5	10	60	V.I.R.	L.C.
D.B.10 TO PANTRY FAN.	1	3/036	6.0	10	30	V.I.R.	L.C.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	No.	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.
THERMOTANK FAN MIDSHIPS.	1	3.23	1	7/044	27.3	31	90	V.I.R.	L.C.
THERMOTANK FAN AFT.	1	3.9	1	7/044	32.3	31	90	V.I.R.	L.C.
ENGINE RM. VENT FANS.	2	4.0	1	7/052	33	37	90/90	V.I.R.	L.C.A.+B.
LATHE	1	3.0	1	7/044	25.4	31	120	V.I.R.	L.C.A.+B.
GRINDER	1	2.0	1	7/036	10.8	24	54	V.I.R.	L.C.A.+B.
DRILL	1	1.5	1	7/036	10.4	24	120	V.I.R.	L.C.A.+B.
GALLEY COMPRESSORS.	2	-	1	3/036	1.8	10	30/30	V.I.R.	L.C.
GALLEY FAN.	1	.5	1	3/036	4.85	10	45	V.I.R.	L.C.
F.W. PUMP.	1	.75	1	7/029	7.7	15	60	V.I.R.	L.C.

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.

RICHARD PICKERSGILL & SONS, LTD.

[Signature]
Director

Electrical Contractors.

Date 21/12/51

COMPASSES.

Have the compasses been adjusted under working conditions.

YES

[Signature]

Builder's Signature.

Date 21-12-51

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.

YES

If not, state date of approval.

—

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 ON THIS VESSEL HAS BEEN INSTALLED UNDER SPECIAL SURVEY AND THE ARRANGEMENTS ARE IN ACCORDANCE WITH OR EQUIVALENT TO THOSE SHOWN ON THE APPROVED PLANS AND THE RULES FOR ELECTRICAL EQUIPMENT.

THE MATERIALS USED ARE OF GOOD QUALITY AND THE WORKMANSHIP IS GOOD.

ON COMPLETION THE EQUIPMENT WAS SEEN OPERATING UNDER WORKING CONDITIONS, THE INSULATION RESISTANCE OF ALL CIRCUITS WAS MEASURED AND FOUND GOOD.

THIS INSTALLATION, IS IN MY OPINION SUITABLE FOR A CLASSED VESSEL INTENDED FOR THE CARRIAGE OF PETROLEUM IN BULK.

Noted *[Signature]* 25-1-52

Total Capacity of Generators 50 Kilowatts.

The amount of Fee ... £ 42 : 10 :

When applied for,

19

Travelling Expenses (if any) £ :

When received,

19

[Signature]

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 1 FEB 1952

Assigned

[Signature]