

REC'D NEW YORK MAR 18 1931

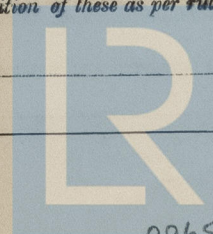
Rpt. 13.

No. 2650

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report MAR 6 1931 When handed in at Local Office 10 Port of BOSTONNo. in Survey held at QUINCY Date, First Survey SEPT 26TH 1930 Last Survey FEB 26TH 1931
Reg. Book. (Number of Visits.....20.....)on the T.S. "HARRY F. SINCLAIR JR." Tons { Gross 6151
Net 3796Built at QUINCY By whom built BETHLEHEM S.B. CORP Yard No. 1439 When built 1931Owners SINCLAIR NAVIGATION CO Port belonging to NEW YORK NYElectric Light Installation fitted by BETHLEHEM S.B. CORP. Contract No. 1439 When fitted 1931System of Distribution TWO WIRE 120 VOLTS. DIRECT CURRENT LaurelPressure of supply for Lighting 120 volts, Heating ✓ volts, Power 120 volts.Direct or Alternating Current, Lighting DIRECT. Power DIRECT.If alternating current system, state frequency of periods per second ✓Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES.Generators, do they comply with the requirements regarding rating YES, are they compound wound YES.are they over compounded 5 per cent. YES., if not compound wound state distance between each generator ✓Where more than one generator is fitted are they arranged to run in parallel YES., is an adjustable regulating resistance fitted in series with each shunt field YES.Are all terminals accessible, clearly marked, and furnished with sockets YES., are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched YES. Are the lubricating arrangements of the generators as per Rule YES.Position of Generators AFTER END OF ENGINE ROOM. ON DYNAMO PLATFORM.is the ventilation in way of the generators satisfactory YES., are they clear of all inflammable material YES.if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators ✓ and ✓, are the generators protected from mechanical injury and damage from water, steam or oil YES.are their axes of rotation fore and aft YES.Earthing, are the bedplates and frames of the generating plant efficiently earthed YES. are the prime movers and their respective generators in metallic contact YES.Main Switch Boards, where placed AFTER END OF ENGINE ROOM. ON DYNAMO PLATFORM.If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard ✓Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES.are they protected from mechanical injury and damage from water, steam or oil YES., if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards ✓ and ✓are they constructed wholly of durable, non-ignitable non-absorbent materials YES., is all insulation of high dielectric strength and of permanently high insulation resistance YES., if semi-insulating material is used, are all conducting parts insulated from the slabwith mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework ✓ and is the frame effectively earthed YES. Are the fittings as per Rule regarding:— spacing or shielding of live partsYES., accessibility of all parts YES., absence of fuses on back of board YES., proportion of omnibus bars YES., individual fuses to voltmeter, pilot or earth lamp YES., connections of switches YES.Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches EACH GENERATOR PROTECTEDBY A CIRCUIT BREAKER, WITH REVERSE CURRENT ATTACHMENT, AND THREE POLE KNIFE SWITCH, BRANCH CIRCUITS, PROTECTEDBY TWO POLE FUSED KNIFE SWITCHESInstruments on main switchboard 2 ammeters 1 voltmeters ✓ synchronising device for paralleling purposes.Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system VOLT METER SWITCH
AND VOLT METER FOR TESTING GROUNDS ON GENERATORS OR SYSTEM.Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES.Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.

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Lloyd's Register
Foundation

006589-006600-0283 1/2

Cables: *Single, twin, ~~triple~~, or multicore* YES are the cables insulated and protected as per Tables IV or V of the Rules YES

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load..... 37

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage. YES

Support and Protection of Cables, state how the cables are supported and protected BY HANGERS PROTECTED BY KICK PIPES
AND STEEL CASINGS

If cables are run in wood casings, are the casings and caps secured by screws ☒, are the cap screws of brass ☒, are the cables run in separate grooves ☒. If armored and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII ☒ YES

Refrigerated Chambers, *if lights are fitted, are the cables and fittings in accordance with the special requirements* **YES**

Joints in Cables, *state if any, and how made, insulated, and protected*..... **NONE**

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands

YES

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed _____ state the material of which the bushes are made _____

Earthing Connections, state what earthing connections are fitted and their respective sectional areas.

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule..... **YES**

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven.

Navigation Lamps, are these separately wired YES, controlled by separate switch and separate fuses YES, are the fuses double pole YES

are the switches and fuses grouped in a position accessible only to the officers on watch YES

has each navigation lamp an automatic indicator as per Rule YES

Secondary Batteries, are they constructed and fitted as per Rule ☒

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and where or exposed to drip or condensed moisture, watertight YES

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected WATER TIGHT GLASSES AND

METAL GUARDS.

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected GAS TIGHT GLASSES, Y

METAL GUARDS

GAS TIGHT TUBES

where are the controlling switches situated OUTSIDE OF PUMP ROOMS.

Searchlight Lamps, No. of ONE, whether fired or portable FIXED, are their fittings as per Rule YES.

Arc Lamps, other than searchlight lamps, No. of are their live parts insulated from the frame or case are their fittings as per Rule

Motors, are their working parts readily accessible YES, are the coils self-contained and readily removable for replacement YES.

are the brushes, brush holder s, terminals and lubricating arrangements as per Rule YES, are the motors, placed in well-ventilated compartments in which in flammable gases cannot accumulate and clear of all inflammable material YES.

are they protected from mechanical injury and damage from water, steam or oil YES. are their axes of rotation fore and aft YES.

if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated forced draught, drip or flame proof type ☒ , if not of this type, state distance of the combustible material horizontally or vertically above the motors ☒ and ☒

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule **YES**

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule.....YES

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings. YES

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office?

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts,	Volts.	Ampères.	Revs., per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	Two	60	120	500	2100	DE LAVAL STEAM TURBINE.		
AUXILIARY								
EMERGENCY ...								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	2	800,000	61	114.5	500	50	RUBBER	CIRCUIT BREAKERS
	EQUALISER CONNECTIONS	1	133,000	19	83.7		50	"	
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	2	6530	7	30.5	20	50	RUBBER	30 AMP FUSE
	BOILER ROOM								
	ACCOMMODATION	FOR 2	66400	7	97.4	29.5	324	"	40 " "
		POOP 2	26300	7	61.2	20	150	"	30 " "
		UPPER DEK 2	26300	7	61.2	21.5	100	"	30 " "
	GYRO-COMPASS	2	26,300	7	61.2		325	RUBBER	30 AMP FUSE
	WIRELESS	2	41,700	7	77.2		350	"	30 " "
	SEARCHLIGHT	2	26,300	7	61.2	9	412	"	15 " "
	MASTHEAD LIGHT...								
	SIDE LIGHTS	2	6530	7	30.5	3	354	"	10 " "
	COMPASS LIGHTS								
	POOP LIGHTS								
	CARGO LIGHTS	2	6530	7	30.5	7	350	"	15 " "
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. <i>CIRC MILS.</i>	COMPOSITION OF STRAND.		Total Maximum Current. <i>in circ.</i>	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No	Diameter. <i>MILS.</i>				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS								
	GENERAL SERVICE PUMP ..								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP	1	26,300	7	61.2	40	50	RUBBER.	50 AMP FUSE
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	REFRIGERATING AIR COMPRESSOR ...	1	26,300	7	61.2	40	50	"	50 " "
	FRESH WATER PUMP	1	10,400	7	38.5	24	50	"	30 " "
	ENGINE TURNING GEAR	1	66,400	7	97.4	70	50	"	100 " "
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	2	66,400	7	97.4	76	50	"	100 " "
	OIL FUEL ^{SERVICE} TRANSFER PUMP	2	26,300	7	61.2	40	50	"	50 " "
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR—								
	(a) MOTOR GENERATOR...								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR	1	41,700	7	77.2	58	75	"	100 " "
	INDUCED DRAFT VENTILATING FAN ...	1	212,000	19	105.5	182	150	"	175 " "
	MAIN CONDENSATE PUMP	2	26,300	7	61.2	40	50	"	50 " "
	AUX. " "	1	26,300	7	61.2	40	50	"	50 " "
	EVAP. FEED.	1	4,110	7	24.2	6.8	75	"	10 " "
	LUB. OIL PURIFIER	1	4,110	7	24.2	5	20	"	10 " "

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

Bethlehem Shipbuilding Corp. Ltd.

Electrical Engineers.

Date 6TH MARCH 1931

H.E. Gault, General Manager

COMPASSES.

Distance between electric generators or motors and standard compass 300 FEET.

Distance between electric generators or motors and steering compass 300 "

The nearest cables to the compasses are as follows:—

A cable carrying 12 Amperes 3 feet from standard compass feet from steering compass.

A cable carrying Amperes feet from standard compass feet from steering compass.

A cable carrying Amperes feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power YES.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted YES.

The maximum deviation due to electric currents was found to be ✓ degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Bethlehem Shipbuilding Corp. Ltd.

Builder's Signature.

Date 6TH MARCH 1931

H.E. Gault, General Manager

Is this installation a duplicate of a previous case YES If so, state name of vessel T.S. "VIRGINIA SINCLAIR."

General Remarks (State quality of workmanship, opinions as to class, etc.)

THE ELECTRICAL INSTALLATION HAS BEEN BUILT UNDER SPECIAL SURVEY AND IN ACCORDANCE WITH THE RULES AND APPROVED PLANS. QUALITY OF MATERIALS AND WORKMANSHIP IS GOOD AND IN THE OPINION OF THE UNDERSIGNED MERITS THE FAVOURABLE CONSIDERATION OF THE COMMITTEE.

It is submitted that
this vessel is eligible for
THE RECORD.

Elec. Dept.

J.H.

9/4/31.

Total Capacity of Generators 120 Kilowatts.

The amount of Fee ... \$152.50 : { When applied for, MARCH 12, 1931

Travelling Expenses (if any) £ ✓ : { When received, 2.4.31

Arthur H. ...
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK MAR 25 1931

Assigned

Electric light



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