

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

31 OCT 1955

Date of writing Report SEPT 2ND 1955 When handed in at Local Office SEP 12 1955 Port of MONTREALNo. in Survey held at KINGSTON Date, First Survey APRIL 25TH Last Survey JUNE 14TH 1955
Reg. Book. (No. of Visits 8)on the M.V. "AMHERST ISLANDER" Tons { Gross 183.75
Net 114.21Built at KINGSTON By whom built KINGSTON SHIPYARDS LTD Yard No. 48 When built 1955Owners DEPARTMENT OF HIGHWAYS, TORONTO Port belonging to KINGSTONInstallation fitted by KINGSTON When fitted 1955-6Is vessel equipped for carrying Petroleum in bulk. No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No Radar. NoPlans, have they been submitted and approved. YES System of Distribution TWO WIRE Voltage of Lighting 110Heating 110 Power 110 D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 60 CYCLESPrime Movers, has the governing been found as per Rule when full load is thrown on and off YES Are turbine emergency governors fittedwith a trip switch - Generators, are they compound wound -, and level compounded under working conditions -Are the generators arranged to run in parallel - Is the compound winding connected to the negative or positive pole -Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing NONE Have certificates of test for machinesunder 100 kw. been supplied and the results found as per Rule NO Position of Generators ENGINE ROOM PORT SIDEis the ventilation in way of generators satisfactory YES are they clear of inflammable material and protected from mechanical injury anddamage from water, steam and oil YES Switchboards, where are main switchboards placed ENGINE ROOM PORT SIDE

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 - DEAD FRONT, if of synthetic insulatingmaterial is it an Approved Type -, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom asper Rule - Is the construction as per Rule, including locking of screws and nuts YES Description of Main Switchgearfor each generator and arrangement of equaliser switches DOUBLE POLE SINGLE THROW SWITCH, EACH POLE FUSEDand the switch and fuse gear (or circuit breakers) for each outgoing circuit DOUBLE POLE SINGLE THROW SWITCHES,EACH POLE FUSEDAre compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard ONEammeters ONE voltmeters NONE synchronising devices. For compound machines in parallel are the ammeters and reverse currentprotection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided TWINLAMPS Preference Tripping, state if provided NO, and tested -Switches, Circuit Breakers and Fuses, are they as per Rule YES & A.I.E.E. 45, are the fuses an Approved Type YES A.I.E.E. 45make of fuses AS APPROVED, are all fuses labelled YES If circuit breakers are provided for the generators, at whatoverload do they operate -, and at what current do the reverse current protectivedevices operate - Cables, are they insulated and protected as per Rule YES & A.I.E.E.if otherwise than as per Rule are they of an Approved Type A.I.E.E. 45, state maximum fall of pressure between bus bars and any pointunder maximum load 2.0 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 GEN², if so, are they adequately protected YES Statetype of cables (if in conduit this should also be stated) in machinery spaces V.I.R LEAD COVERED, galleys -and laundries - State how the cables are supported or protected HANGERS AND CABLE TRAYSCLIPPED, GUARDED WHERE NECESSARYAre all lead sheaths, armouring and conduits effectually bonded and earthed YES Are all cables passing through decks and watertightbulkheads provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holeseffectively 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 -

NONE

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule NONE, state battery capacity in ampère hours —. Where required to do so does it comply with 1948 International Convention —.

WHEELHOUSE CAPTAIN'S & ENGINEERS ROOMS, DECKHANDS ROOM & PURSER'S OFFICE.

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 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.....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. NONE

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. NONE

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....., 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 all cables lead covered as per Rule.....

E.S.D., if fitted state maker. NONE 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.....LIMITED SERVICE

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory.....YES.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	ONE	WRIGHT ELECTRIC MOTORS (HX) LTD. HALIFAX, ENGLAND	10	110	114	1200	DIESEL	CROSSLEY BROS.
EMERGENCY ...								
ROTARY								
TRANSFORMER								

[illegible][illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
STEERING GEAR	ONE	2	ONE	41700CM	24	114	120	V.C.	L.C. & STEEL ARMOR
F.W. AND SANITARY PUMP	ONE	2	ONE	10400CM	25	49	30	V.C.	L.C. & STEEL ARMOR
L.O. PURIFIER	ONE	$\frac{3}{4}$	ONE	6530CM	12	32	15	V.C.	" " " "
E.R. HEATER FANS	TWO	$\frac{1}{30}$	ONE	4110 CM	2.4	15	45	V.I.R	" " " "
E.R. VENT. FAN	ONE	$\frac{3}{4}$	ONE	6530 CM	12	32	70	V.C.	" " " "
ACCOMMOD ^Y VENT FAN.	ONE	$\frac{1}{3}$	ONE	6530 CM	5.4	32	70	V.C.	" " " "
BOILER CIRCUL ^G PUMP	ONE	$\frac{1}{6}$	ONE	4110 CM	2.8	15	30	V.I.R	" " " "
BOILER FAN	ONE	$\frac{1}{8}$	ONE	4110 CM	2.4	15	30	V.I.R	" " " "

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.

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions

YES

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

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

STEERING GEAR

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 ACCORDANCE WITH THE APPROVED PLANS, THE REQUIREMENTS OF THE RULES AND THE A.I.E.E. No 45 SPECIFICATIONS.

THE MATERIALS AND WORKMANSHIP ARE GOOD

ON COMPLETION THE EQUIPMENT WAS TRIED UNDER WORKING CONDITIONS AND FOUND SATISFACTORY

THE EQUIPMENT IS, IN MY OPINION, SUITABLE FOR A CLASSED VESSEL

Total Capacity of Generators

10.

Kilowatts.

The amount of Fee

£ 138⁰⁰

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When applied

Oct 26 1955

19

Travelling Expenses (if any)

£

50⁰⁰

:

When received,

19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUESDAY 20 DEC 1955

Assigned

See Rpt. 4 C