

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 7 MAR 1944

Date of writing Report 3rd Jan. 1944 When handed in at Local Office 3rd Jan. 1944 Port of Vancouver, B.C.

No. in Survey held at Vancouver, B.C. Date, First Survey 3rd Dec. 1943 Last Survey 3rd Jan. 1944

Reg. Book. (Number of Visits 7)

on the Steel Single Screw Steamer "KITSILANO PARK" Tons { Gross 7159.64 Net 4235.08

Built at North Vancouver, B.C. By whom built North Van Ship Repairs Ltd. and No. 135 When built 1943

Owners Minister of Munitions & Supply of Canada (Managers Park Steamship Co. Ltd.) Port belonging to

Electric Light Installation fitted by Hume & Rumble Ltd. Contract No. When fitted 1943

Is the Vessel fitted for carrying Petroleum in bulk No

System of Distribution Constant pressure two-wire direct current

Pressure of supply for Lighting 110 volts, Heating - - - - - volts, Power 110 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 temperature rise Yes, are they compound wound Yes ✓

are they over compounded 5 per cent. No, 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

Attached. Also ships Trial Results Att'd. Have certificates of test results for machines under 100 kw. been submitted and approved under 100 K.W.

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 Engine Room generator platform on first grating level starboard aft. 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 Aft. end of Generator platform athwartships

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 Same Compartment

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. Ebony Asbestos, is all insulation of high dielectric strength and of permanently high insulation resistance Yes

is it of an approved type Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework - - - - - is the non-hygroscopic insulating material of an approved type - - - - - and is the frame effectively earthed Yes

Are the fittings as per Rule regarding:—spacing or shielding of live parts Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, temperature rise of omnibus bars Yes, individual fuses to voltmeter, pilot or earth lamp Yes, are moving parts of switches alive in the "off" position No

are all screws and nuts securing connections effectively locked Yes, are any fuses fitted on the live side of switches No

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches 150 ampere D.P. Linked circuit breakers on separate panels with overload and reverse current trips, and a three pole isolating switch for each generator. D.P. switches and fuses for each outgoing circuit.

Are turbine driven generators fitted with emergency trip switch as per rule - - - - - Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material Yes

Instruments on main switchboard 3 ammeters 3 voltmeters

Selector switch on No.2 Generator Voltmeter.

synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection Yes

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system No.2 Generator Voltmeter Selector Switch wired to give ground readings in addition to Generator and bus bar readings also earth lamps and switch. Switches, Circuit Breakers and Fusible Cut-outs,

do these comply with the requirements of the Rules Yes, are the fusible cutouts of an approved type Yes, have the reversed



All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

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

The foregoing is a correct description.

Hume + Rumble Ltd.
per G. Boston

Electrical Engineers.

Date 3rd Jan. 1944.

COMPASSES.

Distance between electric generators or motors and standard compass 19 feet (Wireless Alternator)

Distance between electric generators or motors and steering compass 16 feet (" ")

The nearest cables to the compasses are as follows:—

A cable carrying .3 Ampères 9" feet from standard compass 9" feet from steering compass. (Compass Lights)

A cable carrying .3 Ampères 1'-4" feet from standard compass 1'-4" feet from steering compass. (Compass correction coils)

A cable carrying .3 Ampères 5 feet from standard compass 3 feet from steering compass. (Wheelhouse Light)

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 Nil degrees on All course in the case of the standard compass, and Nil degrees on All course in the case of the steering compass.

NORTH VAN SHIP REPAIRS LIMITED

G. Boston
Vice President

Builder's Signature.

Date 3rd Jan. 1944

Is this installation a duplicate of a previous case Yes If so, state name of vessel S.S. "FORT COLUMBIA"
Vcr. Rpt. No. 5942

General Remarks (State quality of workmanship, opinions as to class, &c. The electrical equipment of this ship)

has been installed under Special Survey in accordance with the approved plans, New York letters and Society's Rules. The material and workmanship are good, and special attention has been given to the installation of synthetic resin insulated cables, and in the machinery spaces they are kept at least 1" clear of all steel work to allow for air circulation. The installation has been examined under full working conditions, tested as per rule and found satisfactory, and in our opinion is eligible to have the Society's classification without special notation. Copies of particulars of ships trials on generators attached. Makers' certificates covering steam auxiliary engines (driving generators) and generators attached. As fitted plan of electrical wiring attached. The electrical equipment has also been surveyed during construction and installation on behalf of Wartime Merchant Shipping Ltd., to ensure that the terms of the specification have been fully complied with and this work has been satisfactorily carried out.

Total Capacity of Generators 45 watts.

The amount of Fee ... \$ 125.00 : When applied for, 31st Dec. 43

Travelling Expenses (if any) \$ 10.00 : When received, 19

Committee's Minute FRI. 17 MAR 1944

Assigned *see minute on J.S. Rpt*

*Noted
This
15.3.44*

W. G. Donald
Surveyor to Lloyd's Register of Shipping.

1m-4-42.—Transfer. Printed in U.S.A.
(The Survivors are requested not to write on or below the space for Committee's Minute)