

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 28 NOV 1947 Port of HULL.

No. in Survey held at HULL. Date, First Survey 13.10.47 Last Survey 6.11.47
Reg. Book. (Number of Visits.....10.....)

32573 on the "SPRINGBANK" ex "SAMSPELGA". Tons Gross 7248
Net 4398

Built at Baltimore By whom built Bethlehem Fairfield Shipyard, Inc. Yard No. - When built 1944

Owners Bank Line Ltd. (Managers: A. Weir & Co.) Port belonging to London (now Glasgow).

Electrical Installation fitted by The Fairfield Shipyard Inc., Baltimore. Contract No. - When fitted 1944

Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. - Sub.Sig. -

Have plans been submitted and approved Yes System of Distribution two wire insulated Voltage of supply for Lighting 120

Heating 120 Power 120 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity - Prime Movers, has the governing been tested and found as per Rule when full load is suddenly thrown on and off Yes Are turbine emergency governors fitted with a trip switch as per Rule - Generators, are they compound wound Yes, are they level compounded under working conditions Yes

if not compound wound state distance between generators - and from switchboard - Where more than one generator is fitted are they arranged to run in parallel Yes, 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 No Have certificates of test for machines under 100 kw. been supplied No and the results found as per rule - Are the lubricating arrangements and the construction of the generators as per rule No Position of Generators Generator flat, engine room starboard side.

is the ventilation in way of generators satisfactory Yes, are they clear of inflammable material Yes, if situated near unprotected combustible material state distance from same horizontally - and vertically -, are the generators protected from mechanical injury and damage from water, steam and oil Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metallic contact Yes Switchboards, where are main switchboards placed Adjacent to generators.

are they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam and oil Yes, if situated near unprotected combustible material state distance from same horizontally - and vertically -, what insulation material is used for the panels Ebony Asbestos, 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 frame effectually earthed Yes

Is the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board board, individual fuses to pilot and earth lamps, voltmeters, etc. Yes, locking of screws and nuts Yes, labelling of apparatus and fuses Yes, fuses on the "dead" side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches D.P. circuit breakers with overload and reverse current trips; T.P. isolating switch (including equaliser).

and for each outgoing circuit D.P. switch and D.P. cartridge fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard three

ammeters three voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided Earth lamps

Switches, Circuit Breakers and Fuses, are they as per Rule standard are the fuses an approved type standard, are all fuses labelled as per Rule Yes If circuit breakers are provided for the generators, at what overload current did they open when tested -, are the reversed current protection devices connected on the pole opposite to the equaliser connection -, have they been tested under working conditions, and at what current did they operate Yes Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule Yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules standard 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 6%, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets No, but adequate mechanical clamps are provided. Are paper insulated and varnished cambric insulated cables settled at the ends -

and found satisfactory. Yes.....

PARTICULARS OF GENERATING PLANT.

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 Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass 53'0"

Minimum distance between electric generators or motors and steering compass 45'0"

The nearest cables to the compasses are as follows:—

A cable carrying .2 Ampères inside feet from standard compass 8' feet from steering compass.

A cable carrying .2 Ampères 8' feet from standard compass inside feet from steering compass.

A cable carrying Ampères 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 Nil degrees on every course in the case of the

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

Builder's Signature.

Date

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

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

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

The electrical installation of this vessel as now seen appears to have been fitted in accordance with the standards of the American I.E.E. and minor repairs carried out at this port to bring the insulation tests up to Rule requirements.

The generators and circuit breakers and installation generally have been examined, tested under working conditions and found satisfactory.

It was noted that the generators are constructed in line with American practice for a standard temperature rise of 40°C.

The installation, as now seen, is in my opinion, such as could be accepted for classification with this Society.

Notes. SWL. 4/12/47.

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 16: -

When applied for,

28 NOV 1947

Travelling Expenses (if any) £ :

When received.

19

W. H. Bennett

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 5 DEC 1947

Assigned

see minute on Rpt 9



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Foundation