

No. 20274.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

15 SEP 1954

ing Report 9th Sept 1954 When handed in at Local Office 13th Sept 1954 Port of Middlesbrough
Survey held at Hawton Hill-on-Tees Date, First Survey 12.3.54 Last Survey 19.8.1954
(No. of Visits 14)

M.V. "Bygnus."

Tons { Gross.....
Net.....

No. Hawton Hill-on-Tees By whom built Furness S.B. 60 Yard No. 463 When built 1954

Soc. Transoceanica Banopus S.A. Port belonging to Monrovia

on fitted by Furness Shipbuilding Co. Ltd. When fitted 1954

equipped for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. - Radar Yes

they been submitted and approved Yes System of Distribution Two wire insulated Voltage of Lighting 110

110 Power 110 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency -

vers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted

ip switch. Generators, are they compound wound Yes, and level compounded under working conditions Yes.

generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole Negative

chines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines

0 kw. been supplied and the results found as per Rule Yes Position of Generators Fore and aft, starboard

on Engine Room starting platform level.

44 ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and

from water, steam and oil Yes Switchboards, where are main switchboards placed on switchboard flat,

generators on starboard side, arranged fore and aft and facing port side.

in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

and oil Yes what insulation is used for the panels Sindanyo, if of synthetic insulating

is it an Approved Type Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

e. - Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear

generator and arrangement of equaliser switches Triple Pole Air Break circuit Breaker with Overloads

Time Delays on two poles, 60 volt coil, Reverse current coil, and third pole coupled

equaliser connection. Double Pole Air Break circuit Breaker with Overloads and Time

switch and fuse gear (or circuit breakers) for each outgoing circuit.

Double Pole Single Throw Quick Break Knife Switch and Double Pole Fuses.

compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 4

5 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse current

ion devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided Earth lamps

and to 'E' thro' switch & fuses Preference Tripping, state if provided - and tested.

Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

fuses Siemens 'Z' are all fuses labelled Yes If circuit breakers are provided for the generators, at what

do they operate 25% and at what current do the reverse current protective

operate 15% Cables, are they insulated and protected as per Rule Yes

otherwise than as per Rule are they of an Approved Type - state maximum fall of pressure between bus bars and any point

maximum load < 6.6 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends Yes

the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical

Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes State

cables (if in conduit this should also be stated) in machinery spaces 1.6 A + B, galleys 1.6 + B

undries 1.6 + B State how the cables are supported or protected Forward mains cleated to steel

nels along sides of fore and aft gangway. Generator mains clipped to solid steel tray

Engine Room wiring cleated to perforated steel tray plate. Pump Room wiring

clipped to perforated steel tray plate. 1.6 cables in accommodation clipped to wood grounds.

Are all cables passing through decks and watertight

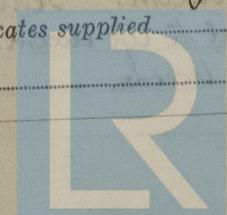
leads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes

very bushed Yes Refrigerated chambers, are the cables and fittings as per Rule Yes

refrigeration fan motors been constructed under survey - and test certificates supplied

re motors accessible for maintenance at all times

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Lloyd's Register
Foundation

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.

For FURNESS SHIPBUILDING CO. LTD.

L. Heavisides

Electrical Contractors.

Date 3/10/54

COMPASSES.

Have the compasses been adjusted under working conditions

YES.

For FURNESS SHIPBUILDING CO. LTD.

H. Butcher

Builder's Signature.

Date 3/10/54

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 No - 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 and materials, opinions as to class, etc.) The electrical equipment for this vessel has been installed under special survey and is 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 run operating under working conditions, the various protective devices were adjusted and operated; and the insulation resistance of all circuits measured and found good.

This installation is in my opinion suitable for a classed vessel intended for the carriage of petroleum in bulk.

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators

145 V Kilowatts.

The amount of Fee £ 63 : 15 :

Radiotherapy Cert £ 6 : 6.

When applied for,

14/9/54

When received,

19

Travelling Expenses (if any) £

Surveyor to Lloyd's Register of Shipping.

P. M. Wilton.

Committee's Minute FRIDAY 5 OCT 1954

Assigned See Rpt 4 b.