

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office...

Date of writing Report. 14.8.46 When handed in at Local Office. 20.9.46 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 4.6.46 Last Survey 12.8.46

Reg. Book. M/V. "BRITISH PRINCESS" (Number of Ticks.....)

85854 on the Tons Gross 8583 Net 4918

Built at Sunderland By whom built Sir James Laing & Sons Ltd. No. 768 When built 1946

Owners British Tanker Co. Ltd Port belonging to London

Electrical Installation fitted by Sunderland Forge & Eng. Co. Ltd Contract No. 768 When fitted 1946

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

Have plans been submitted and approved. Yes System of Distribution Two wire insulated Voltage of supply for Lighting 110

Heating Power 110 Direct or Alternating Current, Lighting Yes Power Yes 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. Have certificates of

test for machines under 100 kw. been supplied. Yes and the results found as per rule. Yes Are the lubricating arrangements and the construction

of the generators as per rule. Yes Position of Generators Nos. 1 & 2. E. End 7th. on Trined. No. 3. on Trined

Flat 9. A. Deck, 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 on angle framework above Nos. 1 & 2.

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. Heavy "Sunderland" 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. Yes, 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. A triple-pole (one

pole for equaliser) air-break circuit-breaker, fitted with 9kV time lag, & R/O circuit

tripping devices.

and for each outgoing circuit. a double-pole quick-break, double-throw knife switch and double-

pole fuse.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Yes Instruments on main switchboard. 3

ammeters. 3 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. E. lamps coupled to E. through bus & fuses

Switches, Circuit Breakers and Fuses, are they as per Rule. Yes, are the fuses an approved type. Yes, 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. 50% - 10.6kV, are the reversed current

protection devices connected on the pole opposite to the equaliser connection. Yes, have they been tested under working conditions, and at what current

did they operate. 10% 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. Yes, if 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. > 60, are the ends of all cables having a sectional area of 0.0

square inch and above provided with soldering sockets. Yes Are paper insulated and varnished cambric insulated cables sealed at the ends. Yes

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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.

Sunderland Forge & Eng Co Ltd Electrical Engineers. Date 16. 8. 1946
J. S. Gurney

COMPASSES.

Minimum distance between electric generators or motors and standard compass 22'

Minimum distance between electric generators or motors and steering compass 12'

The nearest cables to the compasses are as follows:—

A cable carrying .15 Ampères 10 feet from standard compass on the feet from steering compass.

A cable carrying .15 Ampères on the feet from standard compass 10 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 any course in the case of the

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

ED JAMES & SONS LIMITED Builder's Signature. Date _____

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 8.5.46

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

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

The electrical equipment of this vessel has been installed under special survey in accordance with the approved plans and amendments thereto, and complies with the 1939-40 "Rules for Electrical Equipment". The materials used are of good quality and design and the workmanship is good; on completion the equipment was operated on load with satisfactory results and the insulation resistance of each circuit was measured and found good. This equipment is in my opinion suitable for a Classed Vessel.

Noted
L. J.
4/9/46

Total Capacity of Generators (3x30) 90 Kilowatts.

The amount of Fee ... £ 31. 10. 0. 20 AUG 1946

Travelling Expenses (if any) £ : : When received. _____

Committee's Minute _____

Assigned For memo to see J.E. Welch Rpt

B. S. Ward
Surveyor to Lloyd's Register of Shipping.

FRI. 13 SEP 1946



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