

Rpt. 13.

No. 11430

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

WED. FEB. 14 1923

Date of writing Report 17<sup>th</sup> Dec. 1922 When handed in at Local Office 13<sup>th</sup> Feb. 1923 Port of SouthamptonNo. in Survey held at Cowes Date, First Survey 7<sup>th</sup> Dec. Last Survey 6<sup>th</sup> Dec. 1922.  
Reg. Book. on the M.V. "British Torch" (Number of Visits 2)

Built at Cowes By whom built J. S. White &amp; Co. Ltd. Yard No. 1592 When built 1922.

Owners British Petroleum Co. Ltd. Port belonging to Manchester

Electric Light Installation fitted by Telford, Griu &amp; Mackay Ltd. Contract No. When fitted 1922.

System of Distribution Double-Wire Loop-in System ✓

Pressure of supply for Lighting 100 volts, Heating 100 volts, Power — volts.

Direct or Alternating Current, Lighting Direct Current ✓ Power —

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 overload yes, are they compound wound yes

are they over compounded 5 per cent. yes, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel —, is an adjustable regulating resistance fitted in

series with each shunt field yes

Are all terminals accessible and clearly marked yes, are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited yes Are the lubricating arrangements of the generators as per Rule yes

Position of Generators Engine Room (Starboard Side)

is the 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 axis 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 Beside Dynamo

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 —

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, incombustible non-absorbent materials yes, is all insulation of high dielectric strength and of

permanently high insulation resistance yes, if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework yes, and is the

frame effectively earthed yes Are the following fittings as per Rule, viz.:— spacing or shielding of live parts

yes, accessibility of all parts yes, absence of fuses on back of board yes, proportion of omnibus

bars yes, individual fuses to voltmeter, pilot or earth lamp yes, connections of switches yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

Main Switch for Dynos 50 Ampere Capacity D.P. Knife Pattern

Circuit Switches 10 Ampere Capacity D.P. Lumblers Pattern

Instruments on main switchboard one ammeters one voltmeter — synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Earth Lamps

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yes

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes



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All Conductors are of annealed copper conforming to British Standard Specification No. 7.

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

The foregoing is a correct description.

THOMAS CRIBB & SONS, LTD.

Electrical Engineers.

Date

9 Feb 1923

### COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

20 feet

The nearest cables to the compasses are as follows:—

A cable carrying 6 Ampères feet from standard compass 4 feet from steering compass.

A cable carrying Ampères feet from standard compass 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 degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

For J. SAMUEL WHITE & COMPANY, Ltd.

Builder's Signature.

Date 12.2.23

Managing Director.

Is this installation a duplicate of a previous case Yes If so, state name of vessel "British Spark"

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted in accordance with the requirements of the Rules. The materials and workmanship are good. The installation has been tried under full working conditions and found satisfactory. The vessel is in my opinion eligible for the notation "Elec. Light."

It is submitted that this vessel is eligible for THE RECORD. Elec. Light.

Total Capacity of Generators 2 Kilowatts

The amount of Fee ... £ 5 : 0 : When applied for, 11 Jan 1923  
Travelling Expenses (if any) £ : : When received, 29 Jan 1923

A. H. Young Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im 3.22. Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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