

Rpt. 13.

No. 50725.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JUN 17 1940

Date of writing Report.....19..... When handed in at Local Office.....10 JUN 1940..... Port of **HULL**

No. in Survey held at **HULL** Date, First Survey **14.12.39** Last Survey **1.6.40**
Reg. Book. (Number of Visits.....12.....)

on **H.M.T. "BLACKTHORN"** Tons Gross.....452.....
Net.....144.....

Built at **Beverley** By whom built **Cook, Welton & Gemmell^{ltd.}** Yard No. **652** When built **1940-4**

Owners **The Admiralty** Port belonging to.....

Electrical Installation fitted by **Wm. Broady & Sons, Ltd.** Contract No. When fitted **1940-4**

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

Have plans been submitted and approved System of Distribution **Parallel - constant current two wire.** Voltage of supply for Lighting **110.**

Heating **110** Power Direct or Alternating Current, Lighting **Direct** Power If Alternating Current state frequency Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off Are turbine emergency governors fitted with a

trip switch as per Rule Generators, are they compound wound are they level compounded under working conditions

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 are shunt field regulators provided Is the compound winding connected to the negative or positive pole

Positive 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 and the results found as per rule Are the lubricating arrangements and the construction

of the generators as per rule Position of Generators **Engine Room.**

is the ventilation in way of generators satisfactory are they clear of inflammable material 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 are the bedplates and frames earthed and the prime movers and generators in metallic

contact Switchboards, where are main switchboards placed **Engine Room - adjacent to generator.**

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

and oil if situated near unprotected combustible material state distance from same horizontally and vertically what insulation

material is used for the panels **units mounted on frame work insulated with mica strips.** if of synthetic insulating material is it an Approved Type if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Is the frame effectually earthed

Is the construction as per Rule including accessibility of parts absence of fuses on the back of the board individual fuses

to pilot and earth lamps, voltmeters, etc. locking of screws and nuts labelling of apparatus and fuses fuses on the "dead"

side of switches Description of Main Switchgear for each generator and arrangement of equaliser switches.....

D.P. switches & fuses.

and for each outgoing circuit.....

D.P. switches & fuses.

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

ammeters **One** voltmeters synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection Earth Testing, state means provided **Earth lamps & switches - Meggar.**

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.

WM BROADY & SON LTD.
ENGLISH STREET
HULL

Electrical Engineers.

Date 31st May 1940.

COMPASSES.

Minimum distance between electric generators or motors and standard compass.
Minimum distance between electric generators or motors and steering compass.
The nearest cables to the compasses are as follows:—
A cable carrying Ampères feet from standard compass 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
Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted
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.

Handwritten note: Numerous cables in vicinity of compasses for lighting. Particulars of deviation not available.

Builder's Signature. Date

Is this installation a duplicate of a previous case. *yes.* If so, state name of vessel H.M.T. "BIRCH" - Reg. No 50672.

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

Handwritten: This installation has been fitted on board in accordance with the approved Admiralty plans, & requirements and the Society's Rules. The workmanship and materials are good & when subjected to the tests required by the Admiralty & prescribed in the Rules, & also when tried under full working conditions, the installation was found satisfactory in every respect. The requisite stores and spare gear have been demanded & checked on board the vessel.

Handwritten: Noted J.P. 18/6/40

Total Capacity of Generators..... 15 Kilowatts.

The amount of Fee £ When applied for, 19.....
Travelling Expenses (if any) £ with machinery When received, 19.....

Signature: J.P. [Signature]
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 18 JUN 1940

Assigned See Hull J.C. 50725

2nd. 10. 38.—Transfer. (MADE IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)