

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

20 NOV 1942

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office..... 29 NOV 1942..... Port of Hull

No. in Survey held at Hull Reg. Book. Date, First Survey 8.9.42 Last Survey 9.10.1942 (Number of Visits.....1.2.....)

on the Tug "EMPIRE TITAN" Tons { Gross 242 Net nil

Built at HESSLE By whom built HENRY SCARR Yard No. S423 When built 1942 10

Owners MINISTRY OF WAR TRANSPORT Port belonging to

Electrical Installation fitted by W.M. BROADY & SON LD Contract No. ✓ When fitted 1942 10

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

Have plans been submitted and approved yes System of Distribution Parallel constant pressure Voltage of supply for Lighting 110V.

Heating Power ✓ Direct or Alternating Current, Lighting DC Power ✓ 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 no, 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 ✓ and the results found as per rule ✓ Are the lubricating arrangements and the construction

of the generators as per rule yes Position of Generators Starboard side, Engine room.

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 adjoining generators, starboard side

of engine room.

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 Sindano, 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 P.P. switches and

fuses with D.P. change over switch to each generator.

and for each outgoing circuit D.P. switches (change over) and D.P. fuses.

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

ammeters Two voltmeters no 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 and switches

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 ✓, are the reversed current

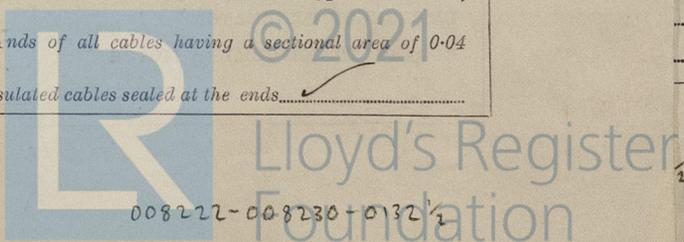
protection devices connected on the pole opposite to the equaliser connection ✓, have they been tested under working conditions, and at what current

did they operate ✓ 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 ✓

state maximum fall of pressure between bus bars and any point under maximum load 2.5V, are the ends of all cables having a sectional area of 0.04

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



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.

JA 21 NOV 1942
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Electrical Engineers. Date 14/11/42.

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 50 ft

Minimum distance between electric generators or motors and steering compass..... 50 ft.

The nearest cables to the compasses are as follows:—

A cable carrying .4 Ampères 4 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 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.

RED AND WHITE SHIPS LIMITED. SECRETARY. Builder's Signature. Date 17/11/42.

Is this installation a duplicate of a previous case..... yes. If so, state name of vessel Emp. Race Emp. Sparte.

Plans. Are approved plans forwarded herewith..... no. If not, state date of approval 26-8-41

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.)

This installation has been fitted on board in accordance with the approved plans, the specification and the Society's Rules. The workmanship and material are good, and when tried under working conditions, and tested as required by the Rules, the installation was found satisfactory in all respects.

Noted
24/11/42

Total Capacity of Generators..... 8 Kilowatts.

The amount of Fee ... £ 8 : 0 : 0
25% for spec. 2 - 0 0
Travelling Expenses (if any) £ : :
When applied for, 19 NOV 1942
When received, 19.....

W. Shields & John Douglas
Surveyor to Lloyd's Register of Shipping

FRI. 27 NOV 1942

Committee's Minute
Assigned See Sub 56. 51812

5m. 4.30.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

