

AUG 12 1940

Rpt. 13.

No. 16883

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report..... 29<sup>th</sup> July 1940 When handed in at Local Office..... 1-8-40 Port of..... MiddlesbroughNo. in Survey held at..... South Bank in 200 Date, First Survey..... 28<sup>th</sup> June Last Survey..... 24<sup>th</sup> July 1940  
Reg. Book. (Number of Visits..... 4)85258 on the S.S. "TUDOR PRINCE" Tons { Gross..... 1913.72  
Net..... 919.51

Built at..... South Bank in 200 By whom built..... Smith's Dock Co. Ltd. Yard No. 1068 When built..... 1940

Owners..... Prince Line Ltd. Port belonging to..... London

Electrical Installation fitted by..... Richard P. King &amp; Co. Ltd. Contract No. 1068 When fitted..... 1940

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

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

Heating..... Power..... 110 Direct or Alternating Current, Lighting..... Yes Power..... Yes 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..... 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

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..... 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..... Engine room starboard side up

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..... Engine room starboard side on

after bulkhead near gunwale

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..... None, 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..... Yes 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..... Double pole

double throw switch and double pole fuse.

and for each outgoing circuit..... Double pole single throw switch and double pole

fuse

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule..... Instruments on main switchboard..... 2w

ammeters..... 2w 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..... Elamps used to E through wire..... Yes







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.

RICHARD PICKERELL & SONS LTD

Electrical Engineers.

Date August 27/40

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 44 feet

Minimum distance between electric generators or motors and steering compass 40 feet

The nearest cables to the compasses are as follows:—

A cable carrying 14 Amperes 7 feet from standard compass 7 feet from steering compass.

A cable carrying 14 Amperes 7 feet from standard compass 7 feet from steering compass.

A cable carrying 14 Amperes 7 feet from standard compass 7 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 Every course in the case of the standard compass, and Nil degrees on Every course in the case of the steering compass.

FOR SMITH'S DOCK CO. LTD

Builder's Signature.

Date 5<sup>th</sup> August 1940

Is this installation a duplicate of a previous case Yes

If so, state name of vessel

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. The materials used and the workmanship are good. On completion the equipment was run under working conditions, the governing, regulation and compounding of the generating sets were tested, the insulation resistance of all circuits was measured and the spare gear was examined. This equipment is in my opinion suitable for a classed vessel.

Noted

12/8/40

Total Capacity of Generators 17 Kilowatts.

The amount of Fee ... £ 16 : - : When applied for, 9-8-1940

Travelling Expenses (if any) £ : : When received, 3-10-1940

Committee's Minute TUE. 13 AUG 1940

Assigned See FE made rft

Santerson

Surveyor to Lloyd's Register of Shipping.