

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9763

Received at London Office

27 OCT 1939

AUG 12 1940

Date of writing Report 21/10/39 When handed in at Local Office 26.10.39 Port of

MANCHESTER

No. in Survey held at
Reg. Book.

ALTRINCHAM, S. Bank Date, First Survey 8.7.1938

Last Survey 19-10-1939

Number of Visits 3

5258 on the ^{Single}
~~Triple~~
~~Quadruple~~

Screw vessel

"TUDOR PRINCE"

Tons { Gross 1913.72
Net 919.51

Built at South Bank

By whom built SMITHS DOCK CO. LD

Yard No. 1068. When built 1939

Owners Prince Line Ltd.

Port belonging to London

Oil Engines made at ALTRINCHAM

By whom made RUSSELL NEWBERRY & CO.

ENGINE Contract No. 3480 When made 1939

Generators made at CHELMSFORD.

By whom made CROMPTON PARKINSON LD.

GENERATOR Contract No. F/2A4765 When made 1939

No. of Sets ONE. Engine Brake Horse Power 9 Nom. Horse Power as per Rule 2.5 Total Capacity of Generators 5 Kilowatts.

OIL ENGINES, &c.—Type of Engines VERTICAL SOLID INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 900. LBS/SQ IN Diameter of cylinders 4.125" Length of stroke 6" No. of cylinders ONE No. of cranks ONE

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4.75" Is there a bearing between each crank —

Revolutions per minute 1000. Flywheel dia. 25" Weight 345. LBS. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL

Crank Shaft, dia. of journals as per Rule APPROVED 2 3/8" Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3.25" Thickness parallel to axis SOLID.
as fitted 2 3/8" Mid. length thickness 1 5/16" Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 1 1/32"

Is a governor or other arrangement fitted to prevent racing of the engine when detached YES Means of lubrication FORCED.

Are the cylinders fitted with safety valves NO Are the exhaust pipes and silencers water cooled or lagged with non-conducting material —

Cooling Water Pumps, No. ONE. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size ONE. PLUNGER TYPE. 3/16" DIA x 5/8"

Air Compressors, No. — No. of stages — Diameters — Stroke — Driven by —

Scavenging Air Pumps, No. — Diameter — Stroke — Driven by —

AIR RECEIVERS:—Have they been made under Survey

State No. of Report or Certificate

Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces.

Is there a drain arrangement fitted at the lowest part of each receiver

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type

Pressure of supply 110 volts. Full Load Current 45.5 Amperes. Direct or Alternating Current DIRECT

If alternating current system, state the periodicity — Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off YES

Generators, are they compounded as per rule YES is an adjustable regulating resistance fitted in series with each

shunt field — Are all terminals accessible, clearly marked, and furnished with sockets —

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched — Are the lubricating arrangements of the generators as per Rule YES

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test YES and do the results comply with the requirements YES

If the generators are 100 kw. or over have they been built and tested under survey —

PLANS. Are approved plans forwarded herewith for Shafting YES
(If not, state date of approval)

Receivers. — Separate Tanks .

SPARE GEAR As per Rule Requirements.

The foregoing is a correct description.

per pro. RUSSELL, NEWBERRY & CO.

Manufacturer.



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Lloyd's Register
Foundation

01294-011303-0200

Dates of Survey while building { During progress of work in shops - - 1939. July 8, 14. Oct 19.
During erection on board vessel - - -
Total No. of visits 3

Dates of Examination of principal parts—Cylinders 14.7.39 Covers 8.7.39 Pistons 14.7.39 Piston rods -
Connecting rods 8.7.39 Crank and Flywheel shafts 14.7.39 Intermediate shafts -
Crank and Flywheel shafts, Material STEEL Identification Marks LLOYDS. 9432. GRC. 20.12.38
Intermediate shafts, Material - Identification Marks -
Identification marks on Air Receivers

Is this machinery duplicate of a previous case If so, state name of vessel

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

THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF GOOD QUALITY AND WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS THE ENGINE SHOWN SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

COPY OF TEST CERTIFICATE FOR GENERATOR IS ATTACHED.

Fitted on board, & found satisfactory. RJE

The amount of Fee ... £ 4 : 4 : 0 When applied for, 26-10-39 M.
Travelling Expenses (if any) £ : 6 : 0 When received, 2-1-1940

Committee's Minute

TUE. 13 AUG 1940

Assigned

See 172 machy rpl.

M. Leicester & R. Easthope
Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register
Foundation

Rpt. 13.
Date of writing
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