

# 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 ALTRINCHAM, J.S. Baul Date, First Survey 8.7.1938 Last Survey 19-10-1939  
 Reg. Book. Number of Visits 3

5258 on the Single Screw vessel "TUDOR PRINCE" Tons 1913.72  
Triple Na 919.51  
Quadruple

Built at South Bank By whom built SMITHS DOCK CO. LD Yard No. 1068 When built 1939  
 Owners Prince Fuel Ltd. Port belonging to London

Oil Engines made at ALTRINCHAM By whom made RUSSELL NEWBERY & CO. Contract No. 3480 When made 1939

Generators made at CHELMSFORD By whom made CROMPTON PARKINSON LD. 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 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 eye-hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 11/32"  
as fitted as fitted

Is a governor or other arrangement fitted to prevent racing of the engine when decelerated 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 . 9/16" 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 Receivers - Separate Tanks -  
 (If not, state date of approval)

SPARE GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description.

per pro. **RUSSELL, NEWBERY & Co.**

Manufacturer.

*J. Russell*



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Lloyd's Register Foundation

01294-011303-0200

*L.F.*  
30/10/39

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

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

Committee's Minute TUE. 13 AUG 1940  
 Assigned See 172 machy rpl.

Rpt. 13.  
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Im. 11.37.—Transfer. (MADE IN ENGLAND.)  
 (The Surveys are requested not to write on or below the space for Committee Minute.)