

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS,

No. 9753

Received at London Office

17 OCT 1939

Date of writing Report 10-10-1939 When handed in at Local Office 16-10-1939 Port of MANCHESTER
No. in Survey held at ALTRINCHAM BANK Date, First Survey 8.7.39 Last Survey 6-10-1939
Reg. Book. Number of Visits 3

89967 on the ^{Single} ~~Twin~~ Screw vessel "STUART PRINCE" Tons { Gross 1911.15 Net 919.16

Built at South Bank By whom built SMITH'S DOCK CO. Yard No. 1067 When built 1940
Owners Prince Line Ltd Port belonging to LONDON

Oil Engines made at ALTRINCHAM By whom made RUSSELL NEWBERRY & Co. ENGINES Contract No. 3481 When made 1939

Generators made at CHELMSFORD By whom made CROMPTON PARKINSON LTD GENERATORS Contract No. F.72.A.4766 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 90 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 as fitted 2 3/8" Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3.25" Mid. length thickness 1.5/16" Thickness parallel to axis SOLID Thickness around eyehole

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

Is a governor or other arrangement fitted to prevent racing of the engine when declutched 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 25.7.39 Receivers — Separate Tanks —

SPARE GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description,
per pro. RUSSELL, NEWBERRY & Co.

J. C. Russell

Manufacturer.



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19/10/39

Dates of Survey while building { During progress of work in shops - - } 1939 July 8. 14. Oct. 6
 { During erection on board vessel - - - }
 Total No. of visits 3

Dates of Examination of principal parts—Cylinders 8.7.39 Covers 14.7.39 Pistons 14.7.39 Piston rods —
 Connecting rods 8.7.39 Crank and Flywheel shafts 8.7.39 Intermediate shafts —
 Crank and Flywheel shafts, Material STEEL Identification Marks LLOYDS. 9431. GEC. 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 ARE IN ACCORDANCE WITH THE SECRETAR'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A 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.

The installation securely fitted on board, & found in order.

RAE
Mdb.

1m.537.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 4 : 4 : 0 When applied for, 16-10-1939 Jul.
 Travelling Expenses (if any) £ : 6 : 0 When received, 2-1-1940

TUE 5 NOV 1940

Committee's Minute

Assigned

See Mdb. J.C. 16917

R. Leicester & R. East
 Surveyors to Lloyd's Register of Shipping.



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