

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9704

Date of writing Report

21-10-39

When handed in at Local Office

26-10-39 Port of

MANCHESTER

27 OCT 1939

No. in Survey held at  
Reg. Book.

ALTRINCHAM BANK

Date, First Survey

8.7.1939

Last Survey

19-10-1939

40321 on the

Single  
Triple

Screw vessel

"NORMAN PRINCE"

Number of Vials

3

Tons { Gross 1913.24  
Net 919.06

Built at

South Bank

By whom built

SMITHS DOCK CO LD

Yard No. 1066

When built 1939

Owners

PRINCE LINE LTD.

Port belonging to

LONDON

Oil Engines made at

ALTRINCHAM

By whom made

RUSSELL NEWBERRY &amp; CO.

ENGINE

Contract No. 3482

When made 1939

Generators made at

CHELMSFORD

By whom made

CROMPTON PARKINSON LD.

GENERATOR

Contract No. F/1A4767

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, &amp;c.—Type of Engines

VERTICAL SOLID INJECTION

2 or 4 stroke cycle

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

as fitted 2 3/8"

Crank pin dia.

2 3/8"

Crank Webs

Mid. length breadth

3.25"

Thickness parallel to axis

Solid

Flywheel Shaft, diameter

as per Rule

Intermediate Shafts, diameter

as per Rule

Thickness of cylinder liners

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 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

(If not, state date of approval)

YES

Receivers

Separate Tanks

SPARE GEAR As PER RULE REQUIREMENTS.

The foregoing is a correct description.

per pro. RUSSELL, NEWBERRY &amp; Co.

Manufacturer.



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Foundation

W1201-00491



Dates of Survey while building { During progress of work in shops - - } 1030 July 8. 14. Oct 19  
{ 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 14.7.39 Intermediate shafts —  
Crank and Flywheel shafts, Material STEEL. Identification Marks LLOYDS 9660. S.R.C. 7.7.39  
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 SHOWED 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 amount of Fee ... £ 4 : 4 : 0 When applied for, 26-10-39  
Travelling Expenses (if any) £ : 6 : 0 When received, 2-1-1940

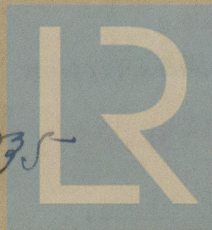
Committee's Minute

Assigned

FRI. 17 MAY 1940

See Mdb J.E. 16835

*Alister R. J. Eastrop*  
Surveyor to Lloyd's Register of Shipping.



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