

## AUXILIARY

4c.

REPORT ON OIL ENGINE ~~ELECTRIC~~ GENERATOR SETS.

No. 7832

Received at London Office

10 JUL 1933

of writing Report 5-7-1933 When handed in at Local Office 8-7-1933 Port of Manchester.

in Survey held at Manchester  
Book.Date, First Survey 26-6-33 Last Survey 5-7-1933.  
Number of Visits 2.Single  
on the Twin } Screw vessel  
Triple }  
Quadruple }

at Selby.

By whom built Messrs. Lockhart &amp; Sons, Ltd.

Yard No.

When built

Port belonging to

Engines made at Altrincham, Nr. Manchester

By whom made Messrs. Russell, Newbery &amp; Co.

ENGINE  
Contract No. 3079

When made 1933

Generators made at ✓ By whom made

Contract No.

When made

of Sets one Engine Brake Horse Power 9 Nom. Horse Power as per Rule 1.6 Total Capacity of Generators ✓ Kilowatts.

ENGINES, &amp;c.—Type of Engines Vertical, Solid Injection, Solid Starting by hand, 2 or 4 stroke cycle 4 Single or double acting Single

Minimum pressure in cylinders 900 lbs/sq. in. Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders one No. of cranks one

No. of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 5/8" Is there a bearing between each crank Yes.

Revolutions per minute 800 Flywheel dia. 23" Weight 2 cwt. Means of ignition Compression Kind of fuel used Heavy Oil

Crank Shaft, dia. of journals as per Rule 2.3" as fitted 2 3/8" Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3 1/4" Mid. length thickness 1 5/16" Thickness parallel to axis Solid. Thickness around eye-hole 3/8"

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 3/8"

governor or other arrangement fitted to prevent racing of the engine when declutched Yes. Means of lubrication Forced.

the cylinders fitted with safety valves No. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material ✓

Sling Water Pumps, No. One to be driven off compressor the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One, 1/16" bore &amp; 7/16" stroke.

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

Sucking Air Pumps, No. Diameter Stroke Driven by

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

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

Sucking 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 volts. Load Amperes. Direct or Alternating Current

Alternating current system, state frequency of periods per second

Is the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating are they compound wound

Are they over compounded 5 per cent. if not compound wound state distance between each generator

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

ANS. Are approved plans forwarded herewith for Shafting Yes. Receivers ✓ Separate Tanks ✓

PISTON RINGS Two piston rings. One exhaust valve & spring. One inlet valve & spring. One scraper ring.  
Copper washers & joints.

The foregoing is a correct description.

FOR PRO. RUSSELL, NEWBERRY &amp; Co.

A. Russell

Manufacturer.



© 2020

Lloyd's Register  
Foundation



Dates of Survey while building { During progress of work in shops - - 26-6-33 to 5/7/33.  
During erection on board vessel - - -  
Total No. of visits

Dates of Examination of principal parts—Cylinder 26-6-33 Cover 26-6-33 Piston 26-6-33 Piston rods ✓

Connecting rods 26-6-33 Crank and Flywheel shaft 26-6-33 Intermediate shaft ✓

Crank and Flywheel shafts, Material Mild Steel Identification Mark LLOYD'S N° 3162 G. A.

Intermediate shafts, Material ✓ Identification Marks

Is this machinery duplicate of a previous case No. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) The above auxiliary engine of Russell, Newbery Type

"It" had been built under Special Survey, and the materials tested in accordance with the rules. The materials so far as can be seen are sound and the workmanship is good. The engine proved satisfactory under shop tests on full load.

This engine is intended to drive an air compressor and Trilove pump for a vessel building by Messrs Cochrane & Sons Ltd., Selby, Yorkshire.

The amount of Fee ... £ 4 : 4 : 0 When applied for, 8-7-1933

Travelling Expenses (if any) £ : : When received, 10-8-1933

J. J. Campbell  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute WED. 9 AUG 1933

Assigned

See J. E. Rep.



© 2020

Lloyd's Register  
Foundation