

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 115635

Received at London Office

of writing Report 10 OCT 1947 19 When handed in at Local Office 10 OCT 1947 19 Port of LONDON  
 in Survey held at Dagenham Date, First Survey 19th August, 1947 Last Survey 9th September 1947  
 Book. Number of Visits 6  
 on the Single Screw vessel  
 Triple  
 Quadruple  
 at By whom built Yard No. When built  
 Port belonging to  
 Engines made at Dagenham By whom made Russell Newbery & Co. Ltd. Contract No. 10AL-192 When made  
 erators made at Stockport By whom made McClure. Contract No. 10975 When made  
 of Sets 1 Engine Brake Horse Power 9 M.N. as per Rule Total Capacity of Generators 3 Kilowatts.  
 let intended for essential services.

**Section**  
**L ENGINES, &c.**—Type of Engines Internal Pre-combustion Solid In- 2 or 4 stroke cycle 4 Single or double acting Single  
 imum pressure in cylinders 860 Diameter of cylinders 4 1/2" Length of stroke 6" No. of cylinders 1 No. of cranks 1  
 indicated pressure 105 Firing order in cylinders --- Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6.11/16"  
 here a bearing between each crank Yes Moment of inertia of flywheel (18,000 Kg.-cm.<sup>2</sup>) 92000 Revolutions per minute 1000  
 wheel dia. 25" Weight 336 lbs. Means of ignition Solid Kind of fuel used Pool  
 as per Rule 2.348 Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3 1/4" Thickness parallel to axis One  
 ank Shaft, dia. of journals as fitted 2 3/8" Mid. length thickness 1.5/16" shrunk Thickness round eyehole Piece  
 as per Rule None Intermediate Shafts, diameter as per Rule None General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)  
 as fitted means provided to prevent racing of the engine when declutched Yes Means of lubrication Forced Kind of damper if fitted None  
 the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material  
 ing Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel  
 icating Oil Pumps, No. and size 1 - 9/16" dia. Plunger x 0.32" Stroke (Engine speed).  
 Compressors, No. No. of stages Diameters Stroke Driven by  
 enging Air Pumps, No. Diameter Stroke Driven by

**RECEIVERS:**—Have they been made under Survey.

State No. of Report or Certificate

h receiver, which can be isolated, fitted with a safety valve as per Rule.

he internal surfaces of the receivers be examined.

What means are provided for cleaning their inner surfaces.

re a drain arrangement fitted at the lowest part of each receiver.

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

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

**g Air Receivers, No.** Total cubic capacity Internal diameter thickness

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

**TRIC GENERATORS:**—Type See separate certificate.

ssure of supply volts Full Load Current Amperes Direct or Alternating Current

Alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

nd off Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field

all terminals accessible, clearly marked, and furnished with sockets Are they so spaced

hielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

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

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

ails of driven machinery other than generator

**ANS.**—Are approved plans forwarded herewith for Shafting

Receivers

Separate Tanks

the Torsional Vibration characteristics if applicable been approved

Armature shaft Drawing No.

**ARE GEAR**

The foregoing is a correct description,

John Newbery

Manufacturer.

For RUSSELL NEWBERY & CO. LTD.



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Lloyd's Register Foundation

004222-004229-0026



Dates of Survey while building { During progress of work in shops - - 19th August, 1947, 27th August, 1947, 9th September, 1947.  
During erection on board vessel - - -  
Total No. of visits Three

Dates of Examination of principal parts—Cylinders 2.7.47. Covers 2.7.47. Pistons 2.7.47. Piston rods None.

Connecting rods 2.7.47. Crank and Flywheel shafts 2.7.47. Intermediate shafts None.

Crank shaft { Material 40 Carb. Steel EN.12. Tensile strength 38/42 tons.  
Elongation 24% on 2". Identification Marks 3084 Lloyds. 2647 JH.

Flywheel shaft, Material None 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.)

The set comprises one RD1 type Engine flexibly coupled to a McClure Generator mounted on a fabricated steel underbase, and fitted with Radiator Cooling.

The Engine has been built under special survey of tested material and the workmanship is good.

On completion of erection the Unit was examined under load conditions and has been found satisfactory.

The set has been despatched to:- Philip & Son, Kingswear, S. Devon.

The amount of Fee ... £ 4 : 0 : 0 When applied for 10 OCT 1947

Travelling Expenses (if any) £ : : When received 19

Committee's Minute

Assigned

FBL 17 SEP 1948

No Action // See F.E. mch. spk

