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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. **115636**

Received at London Office **10 OCT 1947**

of writing Report **10 OCT 1947** When handed in at Local Office **19** Port of **LONDON**

in Survey held at **Dagenham** Date, First Survey **19th August, 1947** Last Survey **9th September 1947.**

Book. **Single** on the **Twin** Triple **Quadruple** Screw vessel. Number of Visits **3**

Engines made at **Dagenham.** By whom made **Russell Newbery & Co. Ltd.** Contract No. **10AL-195** When made.

Generators made at **Stockport.** By whom made **McClure.** Contract No. **10974** When made.

of Sets **1** Engine Brake Horse Power **9** M.N. as per Rule. Total Capacity of Generators **3** Kilowatts.

et intended for essential services.....

ENGINES, &c.—Type of Engines **Internal Pre-combustion Solid Injection** 2 or 4 stroke cycle **4** Single or double acting **Single.**

imum pressure in cylinders **860** Diameter of cylinders **4 1/8"** Length of stroke **6"** No. of cylinders **1** No. of cranks **1**

n indicated pressure **105** Firing order in cylinders **--** Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **6.11/16"**

ere a bearing between each crank **Yes** Moment of inertia of flywheel (~~16773~~ or Kg.-cm.²) **92000** Revolutions per minute **1000**

heel dia. **25"** Weight **336 lbs.** Means of ignition **Solid** Kind of fuel used **Pool**

ank Shaft, dia. of journals as per Rule **2.348** as fitted **2 3/8"** Crank pin dia. **2 3/8"** Crank Webs Mid. length breadth **3 1/2"** Mid. length thickness **1.5/16"** Thickness parallel to axis **shrunk** Thickness round eyehole **One Piece**

heel Shaft, diameter as per Rule **None** as fitted **None** Intermediate Shafts, diameter as per Rule **None** as fitted **None** General armature, moment of inertia (16 m² or Kg.-cm.²)

Means provided to prevent racing of the engine when declutched **Yes** Means of lubrication **Forced** Kind of damper if fitted **None**

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

ng 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).**

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

nging 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.....

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

ng Air Receivers, No. Total cubic capacity..... Internal diameter..... thickness.....

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

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

asure of supply..... volts. Full Load Current..... Amperes. Direct or Alternating Current.....

ternating 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

ielded 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.....

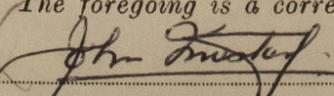
he generators are 100 kw. or over have they been built and tested under survey.....

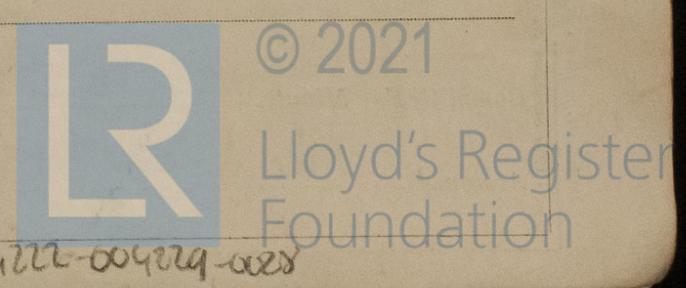
ils of driven machinery other than generator.....

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

he Torsional Vibration characteristics if applicable been approved..... Armature shaft Drawing No.....

ARE GEAR.....

The foregoing is a correct description,

 Manufacturer.
 For RUSSELL NEWBERY & CO. LTD.



00022-00929-0028

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 3

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 ton.
 Elongation 24% on 2". Identification Marks 2084 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 a 3 KW 110.v. Compound Wound Drip-proof Generator flexibly coupled to Engine and driving a Hamworthy Centrifugal Self Priming Pump and a Hamworthy two Stage Water cooled Air Compressor.

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 is found satisfactory.

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

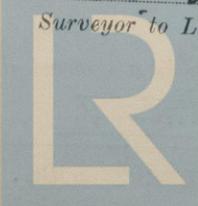
100,848-1. (MADE AND PRINTED IN ENGLAND)

(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 0 : 0 When applied for 10 OCT 1947
 Travelling Expenses (if any) £ : : When received 19

Committee's Minute FRI. 17 SEP 1948

Assigned No Action // Su F.E. Mckay. 11/10/48

Am. Selley
 Surveyor to Lloyd's Register of Shipping.

 Lloyd's Register Foundation