

## 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

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

Tons { Gross... Net... }

By whom built... Yard No... When built...

Port belonging to...

Engines made at Dagenham. By whom made Russell Newbery & Co. Ltd. Contract No. 10AL-193 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.

Maximum 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"

Are there a bearing between each crank Yes Moment of inertia of flywheel 92000 or 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

Crank 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 shrunk Thickness parallel to axis One Piece Thickness round eyehole

Wheel Shaft, diameter 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>)

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

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

Eng Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating 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

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

CTRIC GENERATORS:—Type See separate certificate.

asure 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

shielded 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

4NS.—Are approved plans forwarded herewith for Shafting

Receivers

Separate Tanks

e Torsional Vibration characteristics if applicable been approved

Armature shaft Drawing No.

4RE GEAR

The foregoing is a correct description,

John M. M. M.

Manufacturer.

For RUSSELL NEWBERY &amp; CO. LTD.



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Lloyd's Register  
Foundation

00422-00929-0028



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.

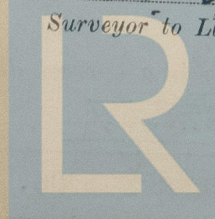
The set has been despatched to:- Philip & Son, Kingswear, S.Devon.

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 // See F.E. mch. rpt.

Surveyor to Lloyd's Register of Shipping.



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