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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 115655

Received at London Office. 10 OCT 1947

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

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

Number of Visits 6
Tons { Gross...
Net...
Screw vessel

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

Generators 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

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"

Is there a bearing between each crank Yes Moment of inertia of flywheel 92000 Kg.-cm.² 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 1/4" Thickness parallel to axis One Piece
Mid. length thickness 1.5/16 shrunk Thickness round eye-hole

Wheel Shaft, diameter as per Rule None as fitted Intermediate Shafts, diameter as per Rule None as fitted 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

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

Driving 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

Engining Air Pumps, No. Diameter Stroke Driven by

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

Are 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

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

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

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

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

ELECTRIC GENERATORS:—Type See separate certificate.

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

Is the system an alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown on and off

Generators, are they compounded as per Rule 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

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

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

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

Are there any shafts of driven machinery other than generator

APPROVALS:—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks
(If not, state date of approval)

Are the Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.
(state date of approval)

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

17.10.47

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.

1m.8.46.—T. (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
 Assigned No Action // See F.E. weekly report

FBL 17 SEP 1948

Pm Selley
 Surveyor to Lloyd's Register of Shipping.



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