

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 123732.

Received at London Office 15 MAR 1952  
 Date of writing Report 21-11-1957 When handed in at Local Office 22-11-1957 Port of London

No. in Survey held at London Date, First Survey 17 October Last Survey 21 November 1957  
 Number of Visits 3

Single on the Twin Triple Quadruple Screw vessel M.T. MARGARET LOCKET Tons Gross Net

By whom built Yard No. When built

Port belonging to Eng No 10 FL 4698 Contract No. 9087 When made 1951

Engines made at Dagenham By whom made Russell Newbery & Co. Ltd. Contract No. When made

Generators made at By whom made Contract No. When made

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

Set intended for essential services Auxiliary

IL ENGINES, &c. Type of Engines High speed compression ignition 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 850 p.s.i. Diameter of cylinders 4 1/2" Length of stroke 6" No. of cylinders 1 No. of cranks 1

Span indicated pressure 105 Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/16"

there a bearing between each crank yes Moment of inertia of flywheel 34525 Revolutions per minute 1000

flywheel dia 25" Weight 336 lbs Means of ignition Compression Kind of fuel used pool

Crank Shaft, dia. of journals as per Rule 2 1/2" Crank pin dia 2 5/8" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis

as fitted 2 1/2" Mid. length thickness 1 5/16" Thickness round eye hole

flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted 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

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

Lubricating Oil Pumps, No. and size 1 gear pump 2 gal/min

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

Exhausting Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS: Have they been made under Survey State No. of Report or Certificate

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

in the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

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

Starting 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 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

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

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

the 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

stails of driven machinery other than generator

PLANS: Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

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

ARE GEAR makers supply covering Rule Requirements To be verified on ship

The foregoing is a correct description,

FOR & ON BEHALF OF RUSSELL NEWBERRY & CO. LTD.

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 17 October 14 ~ 21 November 1951  
{ During erection on board vessel - - }  
Total No. of visits 3 in shops

Dates of Examination of principal parts—Cylinders 17.10.51 Covers 17.10.51 Pistons 17.10.51 Piston rods ✓

Connecting rods 17.10.51 Crank and Flywheel shafts 17.10.51 Intermediate shafts ✓

Crank shaft { Material EN 12 Tensile strength 40 ton  
Elongation 20% Identification Marks Lloyds 043 ERB

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This engine has been built under special survey of tested materials, the engine was examined during erection and under full load conditions, the materials and workmanship are good.

The engine is coupled to McClure 3KW generator No 12236 both secured to fabricated steel underbase.

The set is intended for Hull Engine works M5972

The amount of Fee ... £ 4 : -

Travelling Expenses (if any) £ : :

When applied for 19/12 19 51,

When received 19

FRI. 28 MAR 1952

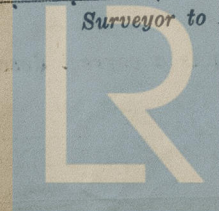
Committee's Minute

Assigned

See F.E. mchly rpt

Ph. Sully

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

Rpt. 13

Date of w

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