

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. _____

Received at London Office _____

Date of writing Report 17/12/52 When handed in at Local Office 17/12/52 Port of London

No. in Survey held at London Date, First Survey 19 Novem Last Survey 5 December 1952

Reg. Book. Single on the Twin Screw vessel "MARICOPA" Tons Gross 11341 Net 6656

Built at Sunderland By whom built Sir Jas Lang & Sons Ltd Yard No. 494 When built 1953

Owners As Howard Berg Port belonging to Jonsberg

Oil Engines made at Dagenham By whom made Russell Newbery & Co Engine No. 644AL 324 Contract No. _____ When made _____

Generators made of _____ By whom made _____ Contract No. 10034 When made _____

No. of Sets 1 Engine Brake Horse Power 90 M.N. as per Rule _____ Total Capacity of Generators _____ Kilowatts.

Is Set intended for essential services _____

OIL ENGINES, &c.—Type of Engines high speed compression ignition 2 or 4 stroke cycle 4 Single or double acting S.A

Maximum pressure in cylinders 850 p.s.i Diameter of cylinders 5 1/8" Length of stroke 7 1/4" No. of cylinders 6 No. of cranks 6

Mean indicated pressure 105 Firing order in cylinders 153624 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 3/8

Is there a bearing between each crank yes Moment of inertia of flywheel 16 m² or Kg.-cm.² 34525 Revolutions per minute 900

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

Crank Shaft, dia. of journals as per Rule As approved 3 3/4" Crank pin dia. 3 5/8" Crank Webs Mid. length breadth 4 5/8" Thickness parallel to axis _____

Flywheel Shaft, diameter _____ as per Rule _____ Intermediate Shafts, diameter _____ as per Rule _____ General armature, moment of inertia (16 m² or Kg.-cm.²) _____

Are 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 _____

Cooling Water Pumps, No. 1 megator high lift 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 3 gal/min

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

Scavenging Air Pumps, No. _____ Diameter _____ Stroke _____ Driven by _____

AIR 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 _____

Can 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 _____

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 _____

If 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 or shielded that they cannot be accidentally earthed, short circuited, or touched _____

Are the lubricating arrangements of the generators as per Rule _____

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

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

Details 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. _____

SPARE GEAR makers supply covering Rule Requirements

The foregoing is a correct description,

Manufacturer.

FOR AND ON BEHALF OF RUSSELL NEWBERY & CO. LTD.



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Lloyd's Register Foundation

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JM
13/1/53

Dates of Survey while building { During progress of work in shops - - } 19, 26 Novem 5^o Decem 52
 { During erection on board vessel - - }
 Total No. of visits 3 in shops

Dates of Examination of principal parts—Cylinders 19.11.52 Covers 19.11.52 Pistons 19.11.52 Piston rods ✓
 Connecting rods 19.11.52 Crank and Flywheel shafts 26.11.52 Intermediate shafts

Crank shaft { Material EN8 Tensile strength 40 ton
 Elongation 20% Identification Marks LLOYD 5782J 11852JS

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 45 KW Sunderland Forge generator 46640 both secured to fabricated steel underbase.
 The set is for Sunderland Forge, Sunderland 58011-2

The amount of Fee ... £ 9 : : : When applied for 24/12/ 19 52
 Travelling Expenses (if any) £ : : : When received 19

TUES. 21 APR 1953

P. M. Sellers
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned Sir F. E. ushy, r.p.b.



101,830-T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)