

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 123904.

Date of writing Report 17-1-1952 When handed in at Local Office 17-1-1952 Port of London
 Received at London Office 31 JAN 1952
 No. in Survey held at London Date, First Survey 19 Dec 1951 Last Survey 16 January 1952
 Reg. Book. on the ^{Single} ~~Triple~~ Screw vessel "CALTEX CALCUTTA" Number of Visits 3
 Built at Sunderland By whom built Wm Daxford & Sons Ltd Yard No. 489 When built 1952
 Owners Overseas Tankships (UK) Ltd Port belonging to London
 Oil Engines made at Dagenham By whom made Russell Newbery & Co Eng No 10DFL 6954 Contract No. D8878 When made 1952
 Generators made at By whom made Contract No. When made
 No. of Sets 1 Engine Brake Horse Power 9 M.N. as per Rule Total Capacity of Generators Kilowatts.
 Intended for essential services Auxiliary

OIL 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 1/8" Length of stroke 6" No. of cylinders 1 No. of cranks 1
 Mean indicated pressure 105 Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/2"
 Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 18229 Revolutions per minute 1000
 Flywheel dia. 20 1/2" Weight 264 lbs Means of ignition Compression Kind of fuel used pool
 Crank Shaft, dia. of journals as per Rule. as fitted 2 1/2" Crank pin dia. 2 5/8" Crank Webs Mid. length breadth 3 1/2" Mid. length thickness 1 5/16" shrunk Thickness parallel to axis Thickness round eye-hole
 Flywheel Shaft, diameter as per Rule. as fitted Intermediate Shafts, diameter as per Rule. as fitted 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

Boiling Water Pumps, No. 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

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

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.
 Working 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
 Voltage 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
 Are the generators so shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule.
 Are the generators under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements.
 Are the generators 100 kw. or over have they been built and tested under survey
 Are there any other driven machinery other than generator.

RECEIVERS.—Are approved plans forwarded herewith for Shafting (If not, state date of approval) Receivers Separate Tanks
 Torsional Vibration characteristics if applicable been approved (state date of approval) Armature shaft Drawing No.
 RE GEAR Inmate supply covering Rule Requirements To be used on ships

The foregoing is a correct description,

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

004603-004611 0235

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Lloyd's Register Foundation

Dates of Survey while building { During progress of work in shops - - } 19th Dec 1951, 2 & 16 January 1952
 { During erection on board vessel - - }
 Total No. of visits 3 in shops
 Dates of Examination of principal parts—Cylinders 19-12-51 Covers 19-12-51 Pistons 19-12-51 Piston rods ✓
 Connecting rods 19-12-51 Crank and Flywheel shafts 19-12-51 Intermediate shafts
 Crank shaft { Material EN8 Tensile strength 40 ton
 Elongation 20% Identification Marks Lloyds 1969D 957L
 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 engine is coupled to Hamworthy air compressor No 87567 both secured to fabricated steel underbase
 The set is intended for H. Dwyford Sunderland N 4557 Ships 784/87/88/89

(The Surveyors are requested not to write on or below the space for Committee Minute.)
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The amount of Fee ... £ 5 : - : -

Travelling Expenses (if any) £ : : -

When applied for 30/1/1952

When received 19

Committee's Minute

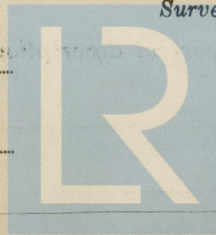
TUES. 9 DEC 1952

Assigned

See F.E. mchng rpt. Sld. 35918

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