



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. Single on the Turn Screw vessel. "CALTEX CALCUTTA" Number of Visits 3

Built at Sunderland By whom built Wm Roxford Sons Ltd Yard No. 489 When built 1952

Owners Ovenson Tankships (UK) Ltd Port belonging to London Eng No 10DFL 6954 Contract No. D8878 When made 1952

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

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.

Service 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 18229 (16 m² or Kg.-cm.²) 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 2 1/2" Crank pin dia. 2 5/8" Crank Webs Mid. length breadth 3 1/2" Mid. length thickness 1 5/16" Kind of fuel used pool

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 ✓

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 gal pump 2 gal min

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

Saving 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 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 windings 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 other driven machinery other than generator ✓

PLANS.—Are approved plans forwarded herewith for Shafting ✓ Receivers ✓ Separate Tanks ✓

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

RE GEAR Input supply covering Rule Requirements To be used on ships

JM
13
2
52

The foregoing is a correct description,

Manufacturer.

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



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004603-004611 0235

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 ✓

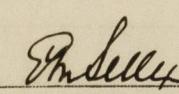
Is this machinery duplicate of a previous case Yes If so, state name of vessel

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 endbase.
 The set is intended for H. Duxford Sunderland N 4557 Ships 784/87/88/89

101,418-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 ... £ 5 : - : When applied for 30/1/1952
 Travelling Expenses (if any) £ : : When received 19

Committee's Minute TUES. 9 DEC 1952
 Assigned See F.E. mchby rpt. Sld. 35918


 Surveyor to Lloyd's Register of Shipping.
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