

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 124450

Received at London Office.

Date of writing Report 15/4/52 When handed in at Local Office 15/4/52 Port of London

No. in Survey held at London Date, First Survey 28 January Last Survey 26 March 1952

Reg. Book. Single on the Twin Screw vessel "Baker Delhi" Number of Visits 3

Built at Sunderland By whom built Wm. Delford & Sons Ltd Yard No. 188 When built 1951

Owners Overseas Tankship (UK) Ltd Port belonging to London Tons { Gross 8517 Net 4808

Oil Engines made at Dagenham By whom made Russell Husbey & Co Eng^{No} 10FL 6953 Contract No. 6953 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 8877 Kilowatts.

Is Set 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 4½" 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 6½"

Is there a bearing between each crank yes Moment of inertia of flywheel 18229 (16 m² or Kg.-cm.²) 18229 Revolutions per minute 1000

Flywheel dia. 20½" Weight 264 lbs Means of ignition Compression Kind of fuel used pool

Crank Shaft, dia. of journals as per Rule as approved 2½" Crank pin dia. 2½" Crank Webs Mid. length breadth 3½" Thickness parallel to axis shrunk

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 ✓

Cooling 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

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 Makes supply covering Rule Requirements. To be used on ship

The foregoing is a correct description,

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

Manufacturer.



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004662-004667-0015

Dates of Survey while building

During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

28 January 19. 26 March 1952

3 (In Shops)

Dates of Examination of principal parts—Cylinders 28.1.52 Covers 28.1.52 Pistons 28.1.52 Piston rods

Connecting rods 28.1.52 Crank and Flywheel shafts 28.1.52 Intermediate shafts

Crank shaft Material E.N8
Elongation 20%

Tensile strength 40 ton

Identification Marks Lloyds 960 1970

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 87591, both seemed to fabricated steel undubase.

The set is for W. Duxford, Sunderland N4557 Ships 784/87/88/89.

The amount of Fee ... £ 5

When applied for 15/4/52

Travelling Expenses (if any) £

When received 19

Committee's Minute

Assigned

Am. Sells

Surveyor to Lloyd's Register of Shipping.



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