

AUXILIARY REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR~~ SETS.

No. 8151

2 OCT 1934

Writing Report 22nd Sept 1934 When handed in at Local Office 29th Sept 1934 Port of MANCHESTER Received at London Office

Survey held at ALTRINCHAM, near MANCHESTER Date, First Survey 14th August 1934 Last Survey 21st Sept 1934

on the Single
Twin
Triple
Quadruple Screw vessel MOTOR VESSEL "PAKURA"
Number of Visits 3 (incl)
Tons { Gross
Net

By whom built Yard No. When built

Engines made at Altrincham By whom made Messrs Russell Newbery & Co. Contract No. 3151 When made 1934

Engines made at By whom made Contract No. When made
Engine Brake Horse Power 18 Nom. Horse Power as per Rule 5.1 Total Capacity of Generators 12 Kilowatts.

Engines, &c. Type of Engines Vertical, Solid Injection, cold starting by hand 2 or 4 stroke cycle 4 Single or double acting Single

pressure in cylinders 900 lb. Diameter of cylinders 4 1/2 Length of stroke 6 No. of cylinders 2 No. of cranks 2

arrangings, adjacent to the Crank, measured from inner edge to inner edge 4 3/4 Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 25" Weight 2 3/4 cwt. Means of ignition Compression Kind of fuel used Heavy oil

Shaft, dia. of journals as per Rule 2 1/2 dia. Crank pin dia. 2 3/8 dia. Crank Webs Mid. length breadth 3 1/4 Thickness parallel to axis 1 5/16

Shaft, diameter as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 3/8

or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

valves fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Water Pumps, No. one on engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Oil Pumps, No. and size one Rotary gear type

Compressors, No. one No. of stages 2 Diameters Stroke Driven by

Air Pumps, No. Diameter Stroke Driven by

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

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

Main arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Air Receivers, No. Total cubic capacity Internal diameter thickness

Welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS: Type One 12 KW See back of Report

Supply volts. Load Amperes. Direct or Alternating Current

By current system, state frequency of periods per second

Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Do they comply with the requirements regarding rating are they compound wound

Compounded 5 per cent. if not compound wound state distance between each generator

Variable regulating resistance fitted in series with each shunt field Are all terminals accessible, clearly marked, and furnished with sockets

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

Are approved plans forwarded herewith for Shafting (If not, state date of approval) Receivers Separate Tanks

GEAR 2 Bottom end bolts and nuts 4 Cylinder head studs, one end of pin

in bearing studs & nuts. One fuel pump delivery valve seat, one fuel pump

valves. One fuel pump delivery valve, 2 Fuel pump tappet springs

1 Fuel delivery valve spring, 2 fuel filter elements.

One set of piston rings for one piston, One exhaust valve, spring, retainers & cotter

One set of valves, One set of piston rings, One crank rod large end brass, one set of gudgeon

pins, one set of main bearing bushes. Dynamometer: One set of brushes and one brush holder

foregoing is a correct description.

RUSSELL, NEWBERY & Co. Manufacturer.



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Dates of Survey while building

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

17.8.34, 6.9.34, 21.9.34 (Mch)

Dates of Examination of principal parts—Cylinders 17.8.34 Covers 17.8.34 Pistons 17.8.34 Piston rods

Connecting rods 21.9.34 Crank and Flywheel shaft 17.8.34 Intermediate shaft ✓

Crank and Flywheel shafts, Material Light Steel Identification Mark LLOYDS No 5050

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case No. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) This auxiliary engine, Messrs Russell

Newbery & Co's "D2" Type has been built under special survey and the materials tested in accordance with the Rules.

The materials so far as can be seen are sound and the workmanship is good.

This engine connected to a Crompton Parkinson 12 H.P. Elec. Generator No F101 A912 (104 amps at 115 volts) and a two stage Recanell air compressor, No 36449. on a combination bedplate has been satisfactorily tested under full load in the shop.

This engine built to the order of Messrs Allen Diesel Co (No 1958) has been shipped to Lyttelton, New Zealand

The amount of Fee ... £ 4 : 4 : 29/9/34

Travelling Expenses (if any) £ : : 13.4.35

TUE. 26 MAR 1935

Committee's Minute

Assigned

George Andrew
Surveyor to Lloyd's Register of Shipping.



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