

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16845

Received at London Office

APR 1947

Date of writing Report 17th Jan 1947 When handed in at Local Office 7 4 1948 Port of BRIS TOL.

No. in Survey held at Dursley, Glos. Date, First Survey 10th July, 1946 Last Survey 3rd January 1947.

Reg. Book. Number of Visits 3

Single on the Twin Triple Quadruple } Screw vessel. Tons { Gross. Net.

Built at Dursley By whom built Harland & Wolff Yard No. When built.

Owners. Port belonging to.

Oil Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd Engine No. CS.55094 When made 1946

Generators made at By whom made Contract No. When made.

No. of Sets. Engine Brake Horse Power 18 Nom. Horse Power as per Rule Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil, Airless Injection 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 800lbs Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 14.5/16" Is there a bearing between each crank No 2 cranks

Revolutions per minute 1000 Flywheel dia. 2 - 26" Weight 308lbs Means of ignition compression Kind of fuel used heavy oil

Crank Shaft, dia. of journals as per Rule 3" Crank pin dia. 3" Crank Webs Mid. length breadth 4 1/4" Thickness parallel to axis 3 1/2" shrunk Mid. length thickness 3 1/2" Thickness round eyehole.

Flywheel Shaft, diameter as per Rule 2 3/4" Intermediate Shafts, diameter as fitted Thickness of cylinder liners 5/16"

Is a governor or other device fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

Are the cylinders fitted with safety valves. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material.

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

Lubricating Oil Pumps, No. and size.

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.

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

SPARE GEAR

The foregoing is a correct description,

P.P. R. A. LISTER (MARINE SALES) LTD.

Manufacturer.

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Dates of Survey while building { During progress of work in shops - - 10.7.46. 5.11.46 3.1.47. During erection on board vessel - - - - - Total No. of visits 3
Dates of Examination of principal parts Cylinders 5.11.46 Covers 5.11.46 Pistons 5.11.46 Piston rods
Connecting rods 5.11.46 Crank and Flywheel shafts 10.7.46 Intermediate shafts
Crank shaft Material Steel Tensile strength 40.28 tons sq. inch.
Elongation 32% Identification Marks Lloyd's 127 S
Flywheel shaft, Material Identification Marks
Is this machinery duplicate of a previous case 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 Auxiliary Oil Engine has been built under Special Survey. Water jackets tested with hydraulic pressure 100 lbs. per sq. inch and found sound and tight. The workmanship and materials has been found good. Crankshaft taken from Maker's stock, test pieces proved satisfactory. After assembly the engine examined during a full load test bed running trial of several hours duration; governor tried and found satisfactory.

Identification Marks M1624 S Engine made to the order of Harland & Wolff, Govan (Messrs. Hall Russell & Co., Ltd.)

The amount of Fee ... £ 4 : 0 : 0 When applied for 7.4.1918
Travelling Expenses (if any) £ 1 : 0 : 0 When received 19

Committee's Minute

Assigned

S. Brooke Smith

Surveyor to Lloyd's Register of Shipping.



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