

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. M. 737

Received at London Office

Date of writing Report 16th Sept. 1938 When handed in at Local Office 16th Sept. 1938 Port of B R I S T O L

No. in Survey held at Dursley Date, First Survey 8th March, Last Survey 13 Sept 1938. Number of Visits 3.

Single
on the Twin
Triple
Quadruple

Screw vessel

ROYAL DAFFODIL

Tons { Gross 2060
Net 1046

Built at Dumbarton By whom built Wm. Denny & Co Ltd Yard No 1330. When built

Owners General Steam Navigation Co Port belonging to London

Oil Engines made at Dursley By whom made R.A. Lister & Co Ltd Engine Contract No. 29987. When made 1938

Generators made at Dursley By whom made Yawdley's Ltd. Generator Contract No. 905870 When made 1938.

No. of Sets one. Engine Brake Horse Power 18. Nom. Horse Power as per Rule Total Capacity of Generators 8 Kilowatts.

OIL ENGINES, &c.—Type of Engines 18-2 J.P.M. 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 750 lb/sq. in. 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 14.375. Is there a bearing between each crank No.

Revolutions per minute 850 Flywheel dia. 26" Weight 328 lbs (2) Means of ignition Compression Kind of fuel used Diesel.

Crank Shaft, dia. of journals as per Rule 3" Crank pin dia. 3" Crank Webs Mid. length breadth 4.25" Thickness parallel to axis

as fitted 3" Mid. length thickness 3.5" Thickness around eyehole

Flywheel Shaft, diameter as per Rule 3" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/25.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes. Means of lubrication forced.

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

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 One gear type

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 Drip proof.

Pressure of supply 220 volts. Full Load Current 36.4. Amperes. Direct or Alternating Current Direct.

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes.

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 Yes.

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

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test Yes. and do the results comply with the requirements Yes.

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting 24/5/35 Receivers Separate Tanks

(If not, state date of approval)

SPARE GEAR

As per Rule requirements.

The foregoing is a correct description,

pp. MESSRS. R.A. LISTER (MARINE SALES) LTD.

DURSLEY, GLOS.,

Manufacturer.



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Foundation

005258-005268-0307

Dates of Survey while building { During progress of work in shops - - } 8th March, 4th July & 13th Sept., 1938
{ During erection on board vessel - - - } ✓
Total No. of visits 3.

Dates of Examination of principal parts—Cylinders 4th July. Covers 4th July. Pistons 4th July. Piston rods ✓

Connecting rods 4th July. Crank and Flywheel shafts 8/3/38. Intermediate shafts ✓

Crank and Flywheel shafts, Material Steel. Identification Marks LLOYDS G.M. 8/3/38.

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

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 engine has been built under special survey in accordance with the Rules & approved plans & was afterwards tested on the test bed, direct coupled to the generator, with satisfactory results. The workmanship & materials throughout are good.

This generating set is to the order of Messrs Wm. Denny & Co. Ltd., Dumbarton & is intended for installation in their ship No 1330.

For identification purposes the engine cylinders are stamped:—

LLOYD'S TEST. 50 lbs/sq. G.M. 4737. 4/7/38.

The welded steel fuel service tank for this engine has been water tested to 15 ft head & found satisfactory.

The amount of Fee ... £ 3 : 3 : 0

Travelling Expenses (if any) £ : 18 : 0

When applied for,

9th Sept 1938

When received,

26.9.38

E. Marlborough.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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