

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13695

Received at London Office MAY 11 1937

4c. Date of writing Report 10th May 1937 When handed in at Local Office 10th May 1937. Port of BRISTOL.

Survey held at Sursley Date, First Survey 12th March Last Survey 7th May 1937. Number of Visits 3.

on the Single Twin Triple Quadruple Screw vessel. Name: Begonia. Tons: Gross, Net.

built at By whom built Yard No. When built

Engines made at Sursley By whom made R. A. Lester & Co. Contract No. 60/374 When made 1937. Generators made at S. By whom made Mowslays Ltd. Contract No. 1107/287 When made.

of Sets one Engine Brake Horse Power 40 Nom. Horse Power as per Rule Total Capacity of Generators 25 Kilowatts.

TYPE OF ENGINES, &c.—Type of Engines 4 S.C.S.A. Airless Injection 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 75 lb. Diameter of cylinders 4 1/2 Length of stroke 5 1/2 No. of cylinders 4 No. of cranks 4

Distance between bearings, adjacent to the Crank, measured from inner edge to inner edge 14 5/16 Is there a bearing between each crank No.

Revolutions per minute 1000 Flywheel dia. 26 Weight 3100 lb. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 3 as fitted 3 Crank pin dia. 3 Crank Webs Mid. length breadth 6 9/16 x 4 1/4 Thickness parallel to axis shrunk Mid. length thickness 1 3/4 Thickness around eyehole

Flywheel Shaft, diameter as per Rule 3 as fitted 3 Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 9/16

Is there a governor or other arrangement fitted to prevent racing of the engine when de-clutched Yes Means of lubrication Grease

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

Boiling Water Pumps, No. one plunger type 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

Saving Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Is 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

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 Compound wound, Dup proof

Pressure of supply 220 volts Full Load Current 114 Amperes Direct or Alternating Current Direct

Is an 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

Are the generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each

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

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

APPROVED PLANS. Are approved plans forwarded herewith for Shafting 30/5/35 Receivers Separate Tanks

SHAFTING AND GEAR

The foregoing is a correct description,

By R. A. Lester & Co. (Marine Sales Dept) Manufacturer.



Dates of Survey while building { During progress of work in shops - - } march. 12. apr. 5. may. 7.
 { During erection on board vessel - - - }
 Total No. of visits 3

Dates of Examination of principal parts—Cylinders 5/4/37 Covers 5/4/37 Pistons 5/4/37 Piston rods ✓
 Connecting rods 5/4/37 Crank and Flywheel shaft 5/4/37 Intermediate shaft ✓
 Crank and Flywheel shafts, Material 5/4/37 Identification Mark MS90 7/5/37 J.W.G.
 Intermediate shafts, Material Identification Marks

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

General Remarks (State quality of workmanship, opinions as to class, etc.)

All parts of this engine have been examined before being assembled found satisfactory
 It was afterwards tested on the test bed coupled to a Meadows's Generator

This set is stated to be for the Goolie S.P. to Yana N 327

The amount of Fee ... £ 3 : 3 : 0
 Travelling Expenses (if any) £ : 9 : 0
 When applied for, 10th May 1937
 When received, 7.6.1937
 L. W. H. Bull

John L. Gwynne
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute WED 4 AUG 1937
 Assigned See true 48037

