

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21,148

Received at London Office

Date of writing Report 10/9/1947 When handed in at Local Office 19 Port of SYDNEY N.S.W. 31 OCT 1947
 No. in Survey held at SYDNEY N.S.W. Date: First Survey 19/12/46 Last Survey 9/9/1947
 Reg. Book Number of Visits 4

Single
on the Twin
Triple
Quadruple
Screw vessel

PANT

Tons Gross 210
Net 113

Built at Melbourne, Victoria By whom built Johnson's Engine Foundry Ltd Yard No. 44 When built Nov. 1945
 Owners The Anglo-Saxon Petroleum Co. Ltd. Port belonging to Sydney N.S.W.
 Oil Engines made at Brisbane, Queensland By whom made Brisbane Foundry Pty. Ltd. Contract No. 19643 When made 1945
 Generators made at " " By whom made " " " " Contract No. 2317 When made 1945
 No. of Sets 1 Engine Brake Horse Power 42.2 Nom. Horse Power as per Rule 8 Total Capacity of Generators 20 Kilowatts.

OIL ENGINES, &c.—Type of Engines Southern Cross. Model 8GC. 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 130 lb./sq. in. Diameter of cylinders 4½" Length of stroke 5½" No. of cylinders 4 No. of cranks 4
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6¼" Is there a bearing between each crank Yes
 Revolutions per minute 1200 Flywheel dia. 22" Weight 350 lb. Means of ignition Compression Kind of fuel used Diesel
 Crank Shaft, dia. of journals as per Rule 3" Crank pin. dia. 2½" Crank Webs Mid. length breadth 3½" Thickness parallel to axis
 as fitted 3" Mid. length thickness 1½" Thickness around eye-hole
 Flywheel Shaft, diameter as per Rule 3" Tapered to 2.663" over 2.75" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners
 as fitted 2.663" over 2.75" Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Oil pump incorporated in engine
 Are the cylinders fitted with safety valves No. Are the exhaust pipes and silencers water-cooled lagged with non-conducting material Yes
 Cooling Water Pumps, No. One centrifugal 1" duct Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size One
 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 COMPOUND WOUND.

Pressure of supply 110 volts Full Load Current 181.8 Amperes Direct or Alternating Current D.C.

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 Yes

Generators, are they compounded as per rule Yes is an adjustable regulating resistance fitted in series with each

shunt field Yes 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

If the generators are 100 kw. or over have they been built and tested under survey See Certificate forwarded with report on sister vessel BUCARIS Syd. Rpt. No. 20830

PLANS. Are approved plans forwarded herewith for Shafting Receivers No separate receiver Separate Tanks
 (If not, state date of approval) For Auxy. Engine

SPARE GEAR See list attached hereto

The foregoing is a correct description,

B. P. Zilden & H. Gerard. Manufacturer.

Surveyor to Lloyd's Register of Shipping



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Lloyd's Register
Foundation

005107-005117-0046

Dates of Survey while building	{	During progress of
		work in shops - - }
		During erection on
		board vessel - - }
		Total No. of visits.....

Dates of Examination of principal parts—Cylinders	Covers	Pistons	Piston rods
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Connecting rods Crank and Flywheel shafts Intermediate shafts ✓

Crank and Flywheel shafts, Material	Identification Marks
<p>.....</p>	<p>.....</p>

<i>Intermediate shafts, Material</i>	<i>Identification Marks</i>
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Identification marks on Air Receivers..... No air receiver for auxy. engine. Electric battery and hand starting.

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.V. BUCKIE

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

This engine was not constructed under special survey. It has been examined and found in good condition and the materials and workmanship appear to be good. The engine has been examined under working conditions, found satisfactory and in my opinion the machinery of this vessel is eligible to be classed as recommended in Report on main Engines forwarded herewith.

The amount of Fee

Travelling Expenses (if any)

Committee's Minute

Assigned

When applied for,

19

When received.

19

B. P. Zieeden
Surveyor to Lloyd's Register of Shipping.

FBI 5 DEC 1947

See p. machy rpt.