

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
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 BGC. 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 130 lb./sq. in. Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/4" 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" as fitted 3" Crank pin dia. 2 1/16" Crank Webs Mid. length breadth 3 1/2" Mid. length thickness 1 5/8" Thickness parallel to axis Thickness around eye-hole

Flywheel Shaft, diameter as per Rule 3" tapered to 2 1/16" over 2 7/8" Intermediate Shafts, diameter as fitted Thickness of cylinder liners

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Oil pumps incorporated in engine

Are the cylinders fitted with safety valves No. Are the exhaust pipes and silencers 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 BUCAR 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 & A. 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

Connecting rods Crank and Flywheel shafts Intermediate shafts ✓

Crank and Flywheel shafts, Material Identification Marks

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers *No air receivers 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.

100-8/42-J. & O.S. PTY. LTD. (TRANSFER PRINTED IN AUSTRALIA)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee	£ <i>Included in Rpt 4 B</i>	When applied for,	19
Travelling Expenses (if any)	£	When received,	19

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

Committee's Minute
 Assigned *See fe machy rpt*

DEC 5 1947



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