

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 23,034

29 APR 1949

Received at London Office

Date of writing Report 23rd March 1949 When handed in at Local Office 23rd March 1949 Port of Sydney N.S.W.
 No. in Survey held at Sydney N.S.W. Date: First Survey 14th May 1948 last Survey 16th February 1949
 Reg. Book Number of Visits 5

Single
 70040 on the ~~Twin~~ Triple } Screw vessel "NYORA"
 Quadruple } Tons { Gross 1356
 Net 676

Built at London, Germany By whom built Nordsee Werke G.m.b.H. Yard No. 175 When built 1935

Owners Commonwealth of Australia (Dept. Shipping & Fuel) Port belonging to Sydney N.S.W.

Oil Engines made at Leamington, Eng. By whom made Leamington Foundry & Eng. Co. Ltd. Contract No. 22483 When made 1945

Generators made at Sydney N.S.W. By whom made Mach. & Electric Co. Contract No. 3759 When made 1945

No. of Sets 1 Engine Brake Horse Power 42.2 Nom. Horse Power as per Rule 7.8 Total Capacity of Generator 20 Kilowatts.

OIL ENGINES, &c.—Type of Engines Southern Cross BGC 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 730 lb. p.s.i. 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 Distillate

Crank Shaft, dia. of journals as per Rule 3" as fitted 3" Crank pin, dia. 2½" Crank Webs Mid. length breadth 3½" Thickness parallel to axis —
 Mid. length thickness 1½" 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 —

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 or lagged with non-conducting material Lagged

Cooling Water Pumps, No. One centrifugal ¾" 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 Direct

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 — 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 —
 (If not, state date of approval) Similar type of set as that fitted in "BUCKIE" & "PANT"

SPARE GEAR —

See list attached hereto.

The foregoing is a correct description,

H. Gervard.

Manufacturer.



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Lloyd's Register
Foundation

4C / 23034

Dates of Survey while building
During progress of work in shops - - } ✓
During erection on board vessel - - } 14, 21/5/48 . 19/1/49 . 16/2/49
Total No. of visits 5

Dates of Examination of principal parts—Cylinders 19/1/49 Covers " Pistons " Piston rods ✓

Connecting rods " Crank and Flywheel shafts " Intermediate shafts ✓

Crank and Flywheel shafts, Material M.S. Identification Marks

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers No air receiver, electric and hand starting used.

Is this machinery duplicate of a previous case Yes If so, state name of vessel "BUCKIE", "PANT",

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

This engine was not constructed under Special Survey. It has been opened up, 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. B. P. V. L. D. - TRANSFER (PRINTED IN AUSTRALIA)
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee £ Charged on Main Engine
Travelling Expenses (if any) £ Report 4b.
When applied for, 19
When received, 19

H. Gervard
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned All minute on fee rpt
FRI, 27 MAY 1949