

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21, 344

Received at London Office

16 MAR 1948

Date of writing Report 12/1/1948 When handed in at Local Office

19

Port of SYDNEY N.S.W.

No. in Survey held at PORT KEMBLA & SYDNEY N.S.W. Date: First Survey 24/4/47 Last Survey 12/1/1948  
Reg. Book

Number of Visits 4

Single  
on the Twin  
Triple  
Quadruple  
Screw vessel

CHELMER

Tons } Gross 209.64  
Net 112.05

Built at PORT KEMBLA N.S.W. By whom built A. E. GOODWIN LTD. Yard No. 76 When built 1947

Owners THE ANGLO SAXON PETROLEUM CO. LTD. Port belonging to SYDNEY N.S.W.

Oil Engines made at TOOWOOMBA, QUEENSLAND. By whom made TOOWOOMBA FOUNDRY PTY LTD. Contract No. 22477 When made 1947

Generators made at " By whom made " Contract No. 2537 When made 1947

No. of Sets 1 Engine Brake Horse Power 42.2 Nom. Horse Power as per Rule 8 Total Capacity of Generator 20 Kilowatts.

OIL ENGINES, &amp;c.—Type of Engines SOUTHERN CROSS. MODEL B.G.C. 2 or 4 stroke cycle 4 Single or double acting SINGLE.

Maximum pressure in cylinders 730 LBS. 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 LBS Means of ignition COMPRESSION Kind of fuel used DIESEL OIL

Crank Shaft, dia. of journals as per Rule 3" Crank pin, dia. 2 1/16" Crank Webs Mid. length breadth 3 1/2" sbrunk Thickness parallel to axis  
as fitted 3" Mid. length thickness 1 5/8" Thickness around eye-holeFlywheel Shaft, diameter as per Rule 3" TAPERED TO 2 1/2" OVER 2 1/2" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners  
as fitted 2 1/2" OVER 2 1/2"

Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched 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. 1 CENTRIFUGAL 1/2" SUCTION. 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 NO AIR RECEIVERS. 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

THE GENERATOR IS A DUPLICATE OF THAT IN M.V. BUCKIE - SEE SYD Rpt. 20830.

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)

SPARE GEAR SAME SPARE GEAR SUPPLIED AS FOR M.S. "BUCKIE." SYD Rpt. 20830.

The foregoing is a correct description,

B. P. Fielden

Manufacturer.

Surveyor to Lloyd's Register of Shipping



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Foundation

00805-011812-0077



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 RECEIVER FOR AUX. ENGINE. ELECTRIC AND HANDSTARTING.*

Is this machinery duplicate of a previous case *YES.* If so, state name of vessel *BUCKLE (SYD R# 20830) PANT (SYD R# 21148)*

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

*This engine is intended for supplying electric power to winches and windlass. It was not constructed under Special Survey but has been opened up, examined and found in good condition and the materials and workmanship appear to be good. The engine and generator have been properly installed under special survey, tested under full power working conditions and found satisfactory. In our 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 £ *Included on Rpt 4 & 5.* When applied for, 19  
 Travelling Expenses (if any) £ : : When received, 19

*A. Gussard & B. P. Nielsen.*  
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*PH. 8 APR 1948*

*See minute on F.E. Rpt*



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