

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 102228

Received at London Office

Date of writing Report 18th Nov. 1935 When handed in at Local Office 21 NOV 1935 Port of London
 No. in Survey held at Bedford Date, First Survey 1st October 1935 Last Survey 1st November 1935
 Reg. Book. Number of Visits 4

19820 on the Single Twin Triple Quadruple Screw vessel m/v. AGUILA II Tons { Gross 1369
 Net 822

Built at Leith By whom built Henry Robb & Co. Yard No. When built 1931/1

Owners Cia. Argentina de Lanchas Port belonging to Buenos Aires

Oil Engines made at Bedford By whom made W. H. Allen & Sons Ltd Contract No. K1/54605 When made 1935

Generator made at Bedford By whom made W. H. Allen & Sons Ltd Contract No. E1/54606 When made 1935

No. of Sets 1 Engine Brake Horse Power 38 Nom. Horse Power as per Rule 10.9 Total Capacity of Generators 25 Kilowatts.

OIL ENGINES, &c.—Type of Engines Quadruple injection (2527) 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 630 lb. sq. in. Diameter of cylinders 200 mm Length of stroke 275 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 214 mm Is there a bearing between each crank Yes

Revolutions per minute 450 Flywheel dia. 1220 mm Weight 2800 lb. Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 108.5 mm Crank pin dia. 130 mm Crank Webs Mid. length breadth 181 mm Thickness parallel to axis shrunk
as fitted 130 mm Mid. length thickness 50 mm Thickness around eyehole shrunk

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 14 mm
as fitted bank shaft as fitted

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

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

Cooling Water Pumps, No. 1 Centrifugal 300 gal. per hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 Gear type 5.1 gallon per minute

Air Compressors, No. — No. of stages — Diameters — Stroke — Driven by —

Scavenging Air Pumps, No. — Diameter — Stroke — Driven by —

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Yes

Is there a drain arrangement fitted at the lowest part of each receiver Yes

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. 1 Total cubic capacity 5 cu ft. Internal diameter 18" thickness 5/16"

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 26/30 Tons Working pressure by Rules 300 lb. sq. in.

ELECTRIC GENERATORS:—Type Open with canopy (63°F. 6 hours)

Pressure of supply 110 volts Load 227 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second —

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator —

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

PLANS. Are approved plans forwarded herewith for Shafting 5-5-32 Receivers — Separate Tanks —
 (If not, state date of approval)

SPARE GEAR One complete set of valves for one cylinder including springs 2 injection nozzles
1 set piston & scraper rings for one piston, 1 set studs & nuts for one cylinder cover, 2 bottom end bolts
2 main bearing bolts, one fuel pump, 1 gauge & pin.

The foregoing is a correct description,

W. H. ALLEN, SONS & CO., LD.,

Alfred Kimber

Manufacturer.



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Lloyd's Register
Foundation

Dates of Survey
while building

1935 Oct. 1. 15. 21. Nov. 1. = 4 Vists.

Dates of Examination of principal parts—Cylinders 1-10-35/15-10-35 Pistons 15-10-35 Piston rods —

Connecting rods 1-10-35

Crank and Flywheel shaft 15-10-35

Intermediate shaft —

Crank and Flywheel shafts, Material

W. D. Steel

Identification Mark

K/54605 210425 5988
GRC. 16.9.35 GAL 15-10-35

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.)

Workmanship good.

This two cylinder engine has been specially surveyed during construction and is in accordance with the approved plan and the Rules.

The materials used have been made at works approved by the Committee and tested by the Surveyor to this Society as required by the Rules.

Full power, 10% overload, governing, regulation, & insulation tests were witnessed, the engine being direct coupled to its generator and found satisfactory.

It is now being dispatched to Burner. Care for fitting onboard.

Note: On receipt by Burner & Kennedy. Tests & tests under power tested by hydraulic pressure with mountings fitted & found satisfactory on the 11/35

Receipt is stamped

Mountings stamped

LLOYDS SHIP
TP 600th
WP 300th
13.9.35
C.H.L.P.

LLOYDS TAT 600th
GAL 1-11-35

Attached hereto.

Copy of Special certificate issued

Engng report on crank shaft.

Copy of certificate of acceptance.

Makin Certificate of test of generator.

The amount of Fee ... £ 6 6 0

When applied for.

19

Travelling Expenses (if any) £ 1 1 0

When received.

19

Committee's Minute

Assigned

W. D. Steel
Surveyor to Lloyd's Register of Shipping.

014899-0114911-0130 2/2

0130 2/2

Aquila II,



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