

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 50142

Received at London Office

4 JUN 1930

Date of writing Report

19

When handed in at Local Office

2. 6. 1930

Port of

Glasgow.

No. in Survey held at

Glasgow.

Date, First Survey

8. 10. 29

Last Survey

20. 5. 1930

Reg. Book

Number of Visits

13

30630. on the

Single  
Twin  
Triple  
Quadruple

Screw vessel

PACIFIC GROVE

Tons { Gross 7114.  
Net 4316.

Built at

Kiel

By whom built Deutsche Werke Kiel A.G. Yard No.

When built 1928.

Owners

Messrs. Furness Withy & Co. Ltd.

Port belonging to

Engines made at

Glasgow.

By whom made Fiat British Auxiliaries Ltd Contract No. 138 When made 1930.

Generators made at

By whom made Metropolitan Vickers Ltd Contract No. When made

of Sets

1 Engine Brake Horse Power 330. Nom. Horse Power as per Rule

Total Capacity of Generators 220. Kilowatts.

ENGINES, &c.

Type of Engines

Fiat British Diesel

2 or 4 stroke cycle

2

Single or double acting

Single

Mean pressure in cylinders

500 lb.

Diameter of cylinders

250 mm

Length of stroke

450 mm

No. of cylinders

5

No. of cranks

5

of bearings, adjacent to the Crank, measured from inner edge to inner edge

354 mm

Is there a bearing between each crank

Yes.

Revolutions per minute

300.

Flywheel dia.

1800 mm

Weight

2.1 tons

Means of ignition Compression

Kind of fuel used Diesel oil

Crank Shaft, dia. of journals

as per Rule 154 mm

as fitted 160 mm

Crank pin dia.

160 mm

Crank Webs

Mid. length breadth 212 mm

Thickness parallel to axis

shrink

Mid. length thickness

92 mm

Thickness around eye hole

as per Rule

Intermediate Shaft, diameter

as fitted

as per Rule

Thickness of cylinder liners

15 mm

Governor or other arrangement fitted to prevent racing of the engine when declutched

Yes.

Means of lubrication

Mechanical

Are the cylinders fitted with safety valves

Yes.

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Lagged.

Driving Water Pumps, No.

One.

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size

one Gear wheel type - 45% inlet & outlet

Compressors, No.

one

No. of stages

3

Diameters

260-232-56

Stroke

320 mm

Driven by Crank Shaft.

Engining Air Pumps, No.

one Double Acting Janssen

Diameter

405 mm

Stroke

300 mm

Driven by Crank Shaft

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

None fitted

Are the internal surfaces of the receivers to be examined

✓

What means are provided for cleaning their inner surfaces

✓

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

✓

Pressure Air Receivers, No.

✓

Cubic capacity of each

✓

Internal diameter

✓

Thickness

✓

Less, lap welded or riveted longitudinal joint

✓

Material

✓

Range of tensile strength

✓

Working pressure by Rules

✓

Engining Air Receivers, No.

✓

Total cubic capacity

✓

Internal diameter

✓

Thickness

✓

Less, lap welded or riveted longitudinal joint

✓

Material

✓

Range of tensile strength

✓

Working pressure by Rules

✓

ELECTRIC GENERATORS:—Type

Open Compound wound.

Voltage of supply

220 volts.

Load

1000

Amperes.

Direct or Alternating Current

Direct

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.

Do they over compound 5 per cent.

Yes.

if not compound wound state distance between each generator

—

Are 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.

Are approved plans forwarded herewith for Shafting

E. 14. 10. 29

Receivers

Yes.

Separate Tanks

—

RE GEAR

1 Fuel valve complete. 3 Fuel valve spindles 3 Fuel valve flame plates. 1 main  
armig. bush. 1 flywheel end bush 2 main bearing studs. 1 top end thrust pin & 1 bottom end bearing  
with bolts. 1 cylinder liners. 1 cylinder cover. 1 set compression piston rings. 1 set compressor valves  
plate. 1 set fuel pump working parts. 1 piston complete. 1 set cylinder cover studs. 1 set of  
valving water pump valves. 1 compressor top end bearing with bolts. 1 air starting valve. 1 relief valve

The foregoing is a correct description.  
FOR FIAT BRITISH AUXILIARIES, LIMITED,

John Rogers

Manufacturer.

WORKS MANAGER.

13th January. 1930.

W112-0119



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Lloyd's Register  
Foundation

Dates of Survey while building { During progress of work in shops - 1929. 11. 30 Nov. 7. 18. 28 Dec 3. 5. 13. 17. 26 (1930) Jan 10 May 20  
 { During erection on board vessel - - -  
 Total No. of visits 13

Dates of Examination of principal parts - Cylinders 7-11-29. Covers 8-10-29. Pistons 8-10-29. Piston rods Trunk type  
 Connecting rods 10.1.29. Crank and Flywheel shaft 28.11.29. Extension Intermediate shaft 28.11.29.  
 Crank and Flywheel shaft Material 5 Identification Mark 1598 R 11/29 Extension Identification Marks 1591 E 19.11.29.  
 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.)

This machinery has been built under special Survey and in accordance with the Rules the materials and workmanship are good. On completion it has been tried on the bench with satisfactory results.

This engine will be eligible, in my opinion, for inclusion in the classification and notation of +LRC of the vessel for which it is intended. The engine will be installed at Glasgow.

The Auxiliary Generator has been properly fitted on board & tried under working condition. The Report No. 50530.

J. B. Peckle

1m. 7. 28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 9 : 14 : 6/3/1930.  
 Travelling Expenses (if any) £ : :  
 When applied for, 6/3/1930.  
 When received, 14.6.30.

Robert Rae & Geoff Shennan  
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3 JUN 1930

Assigned See accompanying Report No. 50530.



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