

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113083

Date of writing Report

Aug 24th 1945

When handed in at Local Office

Aug 24th 1945

Port of

London

Received at London Office

No. in Survey held at
Reg. Book.

Hewbury

Date, First Survey 20 April

Last Survey 10 August 1945

Number of Visits EIGHT

Single
on the Twin
Triple
Quadruple

Screw vessel

"ACTUALITY"

Built at G. Gaole.

By whom built

Gaole S.B. & Reps Co. Ltd.

Yard No. 426.

When built 1945.

Owners F. J. Gaule & Sons Ltd.

Port belonging to

London.

Oil Engines made at Hewbury.

By whom made

Hewbury Diesel Co. Ltd.

Contract No.

Eng. 807.

When made 1945.

Generators made at Horwich

By whom made

Lawrence Scott & Elect. Co.

Contract No.

Small No. 7009A.

When made 1944.

No. of Sets 1. Engine Brake Horse Power 40.

Nom. Horse Power as per Rule

Total Capacity of Generators 25 Kilowatts.

OIL ENGINES, &c.

Type of Engines

Compound Ignition Overhead Injection or 4 stroke cycle

Single ~~Double~~ acting

Maximum pressure in cylinders

700 lb/sq in.

Diameter of cylinders

135 mm.

Length of stroke

200 mm.

No. of cylinders

2.

No. of cranks

2.

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

180 mm.

Is there a bearing between each crank

Yes.

Revolutions per minute

1000.

Flywheel dia.

634 mm.

Weight

588 lb.

Means of ignition

Compound

Kind of fuel used

Diesel oil.

Crank Shaft, dia. of journals

as per Rule

As approved

Crank pin dia.

80 mm.

Mid. length breadth

125 mm.

Thickness parallel to axis

as per Rule

as fitted

Flywheel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

Thickness of cylinder liners

9.0 mm.

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

Lagged.

Cooling 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.

Size 1.7 gal/hr per min.

Air Compressors, No.

One.

No. of stages

Two.

Diameters

52 mm. + 120 mm.

Stroke

102 mm.

Driven by

Clutch.

Scavenging Air Pumps, No.

One.

Diameter

Stroke

Driven by

AIR RECEIVERS:—Have they been made under Survey

None.

State No. of Report or Certificate

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

What means are provided for cleaning their inner surfaces

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

Yes.

High Pressure Air Receivers, No.

One.

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.

One.

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

Screw Protected, drip-proof, compound wound.

Pressure of supply

220 volts.

Full Load Current

113.5

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

is an adjustable regulating resistance fitted in series with each

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

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

Certificates attached

and do the results comply with the requirements

Yes.

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting

11/4/44.

Receivers

Separate Tanks

SHAFTING

Please see attached list.

The foregoing is a correct description.

THE NEWBURY DIESEL Co. LTD.

Manufacturer.

SECRETARY



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