

Rpt. 4c.

7 SEP 1945

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113084

Date of writing Report

Aug 24 1945

When handed in at Local Office

Aug 24 1945

Port of

London

No. in Survey held at

Reg. Book.

hewbury

Date, First Survey

20 APRIL

Last Survey

20 JULY

1945

Number of Visits

EIGHT

Single  
on the Twin  
Triple  
Quadruple

Screw vessel

ACTUALITY

Built at

Goole

By whom built

Goole S.B. Repts. Ltd.

Hoard No.

426

When built 1945

Owners

F. I. Curran &amp; Sons Ltd.

Port belonging to

London

Oil Engines made at

hewbury

By whom made

hewbury Diesel Co. Ltd.

Contract No.

508

When made 1945

Generators made at

hewbury

By whom made

Lamond &amp; Sons Ltd.

Contract No.

400918

When made 1944

No. of Sets

1

Engine Brake Horse Power

40

Nom. Horse Power as per Rule

-

Total Capacity of Generators

20

Kilowatts

## OIL ENGINES, &amp;c.

Type of Engine

Comp. Ignition, Airless Diesel

4 stroke cycle

Single or double acting

Maximum pressure in cylinders

400

Diameter of cylinders

135

Length of stroke

200

No. of cylinders

2

No. of cranks

2

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

180

Revolutions per minute

1000

Flywheel dia.

634

Weight

588

Means of ignition

Comp.

Kind of fuel used

Diesel oil

Crank Shaft, dia. of journals

85

as per Rule

As approved

Crank pin dia.

80

Crank Webs

Mid. length breadth

125

Thickness parallel to axis

-

Flywheel Shaft, diameter

-

as per Rule

as fitted

Intermediate Shafts, diameter

-

as per Rule

as fitted

Thickness of cylinder liners

9.5

Thickness around eye hole

-

Is a governor or other arrangement fitted to prevent raring 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

(G. Service)

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

Yes

Lubricating Oil Pumps, No. and size

One

Emergency pump gear type motor driven 11 ton pump

No. of stages

Two

Diameters

110 x 44

Stroke

8

Driven by

-

Air Compressors, No.

One

No. of stages

Two

Diameters

110 x 44

Stroke

8

Driven by

-

Scavenging Air Pumps, No.

-

Diameter

-

Stroke

-

Driven by

-

AIR RECEIVERS: Have they been made under Survey

None

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

-

Can the internal surfaces of the receivers be examined

-

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

-

High Pressure Air Receivers, No.

None

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

Screen protected - drip proof - compound wound

Working pressure by Rules

-

Pressure of supply

220

Volts

Full Load Current

91

Amperes

Direct or Alternating Current

Direct

No. 95900

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

-

shunt field

-

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

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

(If not, state date of approval)

Receivers

-

Separate Tanks

-

SHAFTING

-

SHAFTING

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SHAFTING

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The foregoing is a correct description.

THE NEWBURY DIESEL CO. LTD.

For &amp; on behalf of

SECRETARY

Manufacturer



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Lloyd's Register Foundation

004101-004106-0104



Dates of Survey while building

During progress of work in shops - -  
During erection on board vessel - - -  
Total No. of visits

Apr. 20. May 1<sup>st</sup> 8, 25, June 5<sup>th</sup> 12. July 10 + 20.

Dates of Examination of principal parts—Cylinders Apr. 20. Covers May 8<sup>th</sup> 25. Pistons May 1<sup>st</sup> - 25. Piston rods -

Connecting rods May 1<sup>st</sup> 25. Crank and Flywheel shafts May 8<sup>th</sup> July 10. Intermediate shafts -

Crank and Flywheel shafts, Material S.M. O.H. Steel.

Identification Marks LLOYDS 42910/11/43. J.N.B.

Intermediate shafts, Material

Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case? Yes. If so, state name of vessel Standard B type 40HP. Eng.

General Remarks (State quality of workmanship, opinions as to class, &c.) The above engine has been constructed to approved plans from materials made at works approved by the Committee - the workmanship is considered satisfactory. The engine, & general service pump after shop trials are in my opinion suitable for the purpose for which they are intended.

Cir. 1803. has been complied with  
(See Secy letter 18.9.45 to Newbury diesel)

Above machinery installed in ACTUALITY at Gove, fitted on starboard side of engine room  
tried under working conditions and found satisfactory. L.S. Shiles  
Hull

The amount of Fee ... £

Travelling Expenses (if any) £

When applied for,

19.....

When received,

19.....

J.L. Smith.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 18 JAN 1946

Assigned

see minute  
on Dr Rpt.



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