

COMPRESSOR, PUMP +

See Lth. No. 20601

Rpt. 4c.

## REPORT ON OIL ENGINE/ELECTRIC GENERATOR SETS.

No. 10675

Date of writing Report

2<sup>nd</sup> August 41

When handed in at Local Office

15/9/41

Port of

Manchester.

Received at London Office

6 SEP 1941

No. in Survey held at  
Reg. Book.

Reddish, Stockport

Date, First Survey

27/1/41

Last Survey

24/7/41

Number of Visits

2.

Single  
on the Twin  
Triple  
Quad (pole)

Screw vessel

M.S.C. NEPTUNE.

Tons { Gross  
Net

Built at

Leith

By whom built

Messrs. Henry Robb &amp; Co.

Yard No. 319

When built 1941.

Owners

The Manchester Ship Canal Co.

Port belonging to

Oil Engines made at

Reddish

By whom made

Messrs. Crossley Bros.

ENGINE.

Contract No. 129931.

When made 1941.

Generators made at

Liverpool

By whom made

Messrs. Campbell, Galloway &amp; Co.

Contract No. 15255

When made 1941.

No. of Sets

One.

Engine Brake Horse Power

28

Nom. Horse Power as per Rule

Total Capacity of Generator

12½

Kilowatts.

OIL ENGINES, &amp;c. Type of Engines Vertical, solid injection 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders

750 lb/sq. in.

Diameter of cylinders

5"

Length of stroke

6.25"

No. of cylinders

2

No. of cranks

2

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

12 5/8"

Is there a bearing between each crank

No.

Revolutions per minute

1000

Flywheel dia.

24"

Weight

-

Means of ignition

Compression

Kind of fuel used

Heavy oil.

Crank Shaft, dia. of journals

as per Rule

Approved.

Crank pin dia.

3 1/2"

Crank Webs

Mid. length breadth

4 1/2"

Thickness parallel to axis

-

as fitted

3 1/2"

as per Rule

as fitted

-

Mid. length thickness

2 7/8" &amp; 1 7/8"

shrink

Thickness around eyehole

-

Flywheel Shaft, diameter

as per Rule

-

Intermediate Shafts, diameter

as per Rule

-

Thickness of cylinder liners

9/32"

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

-

Cooling Water Pumps, No.

One.

Lubricating Oil Pumps, No. and size

One.

75 Gall. per hour.

7 1/2" bore

1 7/32" stroke

Air Compressors, No.

One

No. of stages

Two

Diameters

4 1/2" - 1 5/8"

Stroke

3 1/4"

Driven by

Engine, thru clutch

Scavenging Air Pumps, No.

-

Diameter

-

Stroke

-

Driven by

-

AIR RECEIVERS: Have they been made under Survey

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

Pressure of supply

110

volts.

Full Load Current

114

Amperes.

Direct or Alternating Current

Direct

If alternating current system, state the periodicity

Yes.

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

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

26/7/40

Receivers

-

Separate Tanks

Not supplied.

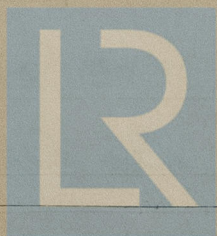
SPARE GEAR

As per Rule Requirements

The foregoing is a correct description,

CROSSLEY BROTHERS LIMITED,

Manufacturer.



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006968-006982-0124



Dates of Survey while building  
 { During progress of work in shops - - }  
 { During erection on board vessel - - - }  
 Total No. of visits 2.

24<sup>th</sup> January 1941, 24<sup>th</sup> July 1941.

Dates of Examination of principal parts—Cylinders 27/1/41 Covers 27/1/41 Pistons 27/1/41 Piston rods ✓  
 Connecting rods 27/1/41 Crank and Flywheel shafts 27/1/41 Intermediate shafts ✓  
 Crank and Flywheel shafts, Material O. H. Ingot Steel. Identification Marks LLOYDS 1362/63 W.J.F. 15-1-41.  
 Intermediate shafts, Material Identification Marks ✓  
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case If so, state name of vessel

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

This engine has been built under special survey of tested materials and is in accordance with Secretary's letters, approved plans and Rule requirements.  
 The materials used and the workmanship are of good quality and the engine when tested in the shop under full load conditions gave satisfactory results.  
 In my opinion this engine is suitable to be placed on board a vessel classed with this Society for the purpose intended.  
 Copy of generator certificate of test is attached here with.  
 Torsion report for crankshaft is attached to Mch. Rpt. No 10674.

The amount of Fee ... £ 4 : 4 : 15/9/41  
 Travelling Expenses (if any) £ : 6 :  
 When applied for, 15/9/41  
 When received,

Committee's Minute

Assigned

WED. 4 FEB 1942

See Lth. J.E. 20601

H. P. Matheson  
 Surveyor to Lloyd's Register of Shipping.



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