

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 110,099

Date of writing Report

19

When handed in at Local Office

15 DEC 1941

Port of

Received at London Office

No. in Survey held at
Reg. Book.

Lowestoft

Date, First Survey

1 July 1941

Last Survey

4 Dec

1941

Number of Visits

20

Single
on the Twin
Triple
Quadruple

Screw vessel m.v. "EMPIRE SOUND"

Tons { Gross
Net

Built at

Lowestoft

By whom built Richards Ironworks, Ltd.

Yard No. 287

When built 1941

Owners

Port belonging to

Lowestoft

Oil Engines made at

Ridgish

By whom made Crossley Bros. Ltd.

Contract No. 129911

When made 1941

Generators made at

Liverpool

By whom made Campbell Ishwood

Contract No. 15300

When made 1941

No. of Sets 6

Engine Brake Horse Power 12

Nom. Horse Power as per Rule 2.5

Total Capacity of Generators 3 Kilowatts.

OIL ENGINES, &c.—Type of Engines

2 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders

Diameter of cylinders

Length of stroke

No. of cylinders

No. of cranks

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

Is there a bearing between each crank

Revolutions per minute

Flywheel dia.

Weight

Means of ignition

Kind of fuel used

Crank Shaft, dia. of journals

as per Rule

Crank pin dia.

Crank Webs

Mid. length breadth

Thickness parallel to axis

as fitted

Mid. length thickness

shrunk

Thickness around eyehole

Flywheel Shaft, diameter

as per Rule

Intermediate Shafts, diameter

as per Rule

Thickness of cylinder liners

as fitted

as fitted

Is a governor or other arrangement fitted to prevent racing of the engine when declutched

Means of lubrication

Are the cylinders fitted with safety valves

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

Cooling Water Pumps, No.

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

Lubricating Oil Pumps, No. and size

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

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

volts.

Load

Amperes.

Direct or Alternating Current

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

Generators, do they comply with the requirements regarding rating

are they compound wound

are they over compounded 5 per cent.

, if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets

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

PLANS. Are approved plans forwarded herewith for Shafting

(If not, state date of approval)

Receivers

Separate Tanks

SPARE GEAR

The foregoing is a correct description,

C. Richards

RICHARDS IRONWORKS LTD.
CROWN WORKS
LOWESTOFT

Manufacturers.



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