

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15129

Date of writing Report 5th Aug 1942 When handed in at Local Office 14th Aug 1942 Port of Manchester Received at London Office 17 AUG 1942
 No. in ^{Supp} Survey held at Reddish Date, First Survey 6th May 1942 Last Survey 7th Aug 1942
 Reg. Book. 86262 on the Single Twinn Triple Quadruple Screw vessel 1m/v " EMPIRE REYNARD Number of Visits 5 Tons { Gross 321
 Built at Lowestoft By whom built Richard's Ironworks Yard No. 301 When built 1942
 Owners Ministry of War Transport Port belonging to Lowestoft
 Oil Engines made at Reddish By whom made Crossley Bros. ENGINE Contract No. 130891 When made 1942
 Generators made at Booth By whom made Campbell & Sherwood GENERATOR Contract No. 16173 When made 1942
 No. of Sets 1 Engine Brake Horse Power 14 Nom. Horse Power as per Rule 4 Total Capacity of Generators 3 Kilowatts.

OIL ENGINES, &c.—Type of Engines *Direct injection heavy oil engine* or 4 stroke cycle *4* Single or double acting *single*

Maximum pressure in cylinders *850 lb./sq* Diameter of cylinders *5"* Length of stroke *6.25"* No. of cylinders *1* No. of cranks *1*

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *6 3/8"* Is there a bearing between each crank *—*

Revolutions per minute *1000* Flywheel dia. *24"* Weight *460 lb.* Means of ignition *compression* Kind of fuel used *Heavy*

Crank Shaft, dia. of journals *as per Rule. APPROVED* Crank pin dia. *3 1/4" (2" axial hole)* Mid. length breadth *4 1/2"* Thickness parallel to axis *✓*

as fitted *3 1/2"* Crank Webs *Mid. length thickness 1 13/16" shrunk* Thickness around eyehole *✓*

as per Rule *FLYWHEEL FITTED* *as per Rule* *Intermediate Shafts, diameter* *as fitted* *Thickness of cylinder liners 9/32"*

as fitted *ON CRANKSHAFT*

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

Lubricating Oil Pumps, No. and size *one 65 gals per hour.*

Air Compressors, No. *one* No. of stages *one* Diameters *3 1/4"* Stroke *3 1/4* Driven by *Aux Eng.*

Scavenging Air Pumps, No. *✓* Diameter *✓* Stroke *✓* Driven by *✓*

IR 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 Compound wound drip proof type.
Pressure of supply 110 volts. **Full Load Current** 27 Amperes. **Direct or Alternating Current** direct.
 If alternating current system, state the periodicity ☒ Has the **Automatic Governor** been tested and found efficient when the whole 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 ☒ 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 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 yes ✓ Receivers. ✓ Separate Tanks ✓
(If not, state date of approval)

PARE GEAR As per rule requirements. ✓

The foregoing is a correct description.

CROSSLEY BROTHERS LIMITED.

Manufacturer.

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Lloyd's Register
Foundation

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