

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 262.

Date of writing Report 19... When handed in at Local Office 19... Port of NOTTINGHAM. 30 JAN 1948  
 Received at London Office  
 No. in Survey held at Lincoln Date, First Survey... Last Survey... 19...  
 Reg. Book... Number of Visits...  
 on the <sup>Single</sup> ~~Twin~~ <sup>Triple</sup> ~~Quadruple~~ Screw vessel... Tons { Gross... Net...  
 Built at Goole By whom built Goole Shpblgd. Co. Ltd., Yard No... When built...  
 Owners... Port belonging to... 13/450232-35.  
 Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd., Contract No... When made 1947  
 Generators made at Sunderland By whom made Sunderland Forge & Eng. Co. Contract No... When made...  
 No. of Sets 4 Engine Brake Horse Power 170 M.N. as per Rule 42.5 Ltd.; Total Capacity of Generators 400 Kilowatts.  
 Is Set intended for essential services... per engine per engine

**OIL ENGINES, &c.**—Type of Engines 5VCBZ. Nos. 247220, 247222, 247221, 247223. 2 or 4 stroke cycle 4 Single or double acting SA  
 Maximum pressure in cylinders 750 lbs. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 5 No. of cranks 5  
 Mean indicated pressure 104 lbs. Firing order in cylinders 1.3.5.4.2. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9.3/16"  
 Is there a bearing between each crank Yes Moment of inertia of flywheel 5.3 tons. ft. Revolutions per minute 600  
 Flywheel dia. 31-9" Weight 12.3 cwt. Means of ignition Compression Kind of fuel used Diesel Oil.  
 Crank Shaft, dia. of journals as per Rule 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis -  
 as fitted 6" Mid. length thickness 2 1/2" shrunk Thickness round eyehole -  
 Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) -  
 as fitted Crank. as fitted -  
 Are means provided to prevent racing of the engine when declutched Yes Means of lubrication Forced Kind of damper if fitted -  
 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -  
 Cooling Water Pumps, No. one, engine driven Is the sea suction provided with an efficient strainer which can be cleared within the vessel -  
 Lubricating Oil Pumps, No. and size one 480 gals. per hour. engine driven.  
 Air Compressors, No. No. of stages Diameters Stroke Driven by  
 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 Drip proof, compound wound, Machine Nos. G.6407A, G.6407B, G.6408A, G.6408B.  
 Pressure of supply 220 volts. Full Load Current 455 Amperes Direct or Alternating Current D.C.  
 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 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 and do the results comply with the requirements  
 If the generators are 100 kw. or over have they been built and tested under survey Yes Stamped LLOYDS TEST S.D.B. with date.  
 Details of driven machinery other than generator  
**PLANS.**—Are approved plans forwarded herewith for Shafting Standard. 20.12.38. Receivers Standard. Separate Tanks  
 Have Torsional Vibration characteristics if applicable been approved Yes 30.4.47. Armature shaft Drawing No. 42479.  
 (state date of approval)

Ruston &amp; Hornsby Limited,

The foregoing is a correct description,

1/1/48 22 I 48

Manufacturer.

Oil &amp; Gas Engine Dept.



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Foundation

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(The Surveyors are requested not to write on or below the space for Committee Minutes.)