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14 JUN 1948

M.B. 18539.



Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 313.

Date of writing Report 19... When handed in at Local Office 19... Port of NOTTINGHAM Received at London Office 11 JUN 1948

No. in Survey held at Lincoln Date, First Survey... Last Survey... 19...
 Reg. Book. Single on the Twin Triple Quadruple Screw vessel BERGSUND Number of Visits...
 Built at Hartlepool By whom built Furness Shipbuilding Co. Ltd. Yard No. 417 When built...
 Owners... Port belonging to...
 Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd. Contract No. 11/465004 When made 1948
 Generators made at... By whom made Crompton Parkinson Ltd. Contract No... When made...
 No. of Sets 1 Engine Brake Horse Power 24.75 M.N. as per Rule 6 Total Capacity of Generators 15 Kilowatts.
 Is Set intended for essential services...

OIL ENGINES, &c.—Type of Engines 3VSHZ. Eng. No. 256452 2 or 4 stroke cycle 4 Single or double acting SA
 Maximum pressure in cylinders 850 lbs. Diameter of cylinders 4 1/2" Length of stroke 4 1/2" No. of cylinders 3 No. of cranks 3
 Mean indicated pressure 104.5 lbs. Firing order in cylinders 1-3-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5.7/16"
 Is there a bearing between each crank Yes ~~WD~~ WD Flywheel 160 cm. dia. 808 lb. ft. Revolutions per minute 1100
 Flywheel dia. 22 3/8" Weight 346 lbs. Means of ignition Compression Kind of fuel used Diesel Oil
 Crank Shaft, dia. of journals 2 3/8" as per Rule... Crank pin dia. 2 3/4" as fitted... Crank Webs 3 3/8" Mid. length breadth... Thickness parallel to axis...
 Flywheel Shaft, diameter 2 3/8" as per Rule... Intermediate Shafts, diameter 2 3/8" as fitted... General armature, moment of inertia (16 m² or Kg.-cm.²)...
 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 No. 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 one - 180 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, Continuous rating No. F.101A.4722.
 Pressure of supply 220 volts. Full Load Current 68 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 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...

Details of driven machinery other than generator...
PLANS.—Are approved plans forwarded herewith for Shafting 13.4.43. Receivers... Separate Tanks...
 Have Torsional Vibration characteristics if applicable been approved Not applicable. Armature shaft Drawing No...
SPARE GEAR To rule requirements.

Ruston & Hornsby Limited.
 The foregoing is a correct description,
2.5.48 Engineering Divn. Manufacturer.

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