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Rpt. 40

IN D.O. REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 795

Date of writing Report 19 When handed in at Local Office 19 Port of NOTTINGHAM.

Received at London Office 18 APR 1950

No. in Survey held at Lincoln Date, First Survey Last Survey 19
Reg. Book.Single on the Twin Triple Screw vessel 8/7 "Jon Balderson" Number of Visits
Built at Aberdeen. By whom built Hall Russell & Co. Ltd., Yard No. 826 Tons Gross Net.
Owners Icelandic Government Port belonging to Reykjavik When built 1951Oil Engines made at Lincoln By whom made Ruston & Hornsby Ltd., Contract No. 17/480473 When made
Generators made at Gateshead. By whom made Clarke Chapman Ltd., Contract No. When madeNo. of Sets 1 Engine Brake Horse Power 30 M.N. as per Rule 7.5 Total Capacity of Generators 15 Kilowatts.
Is Set intended for essential services. YesOIL ENGINES, &c.—Type of Engines 3VRHZ. Eng. No. 285842. 2 or 4 stroke cycle. 4 Single or double acting SA
Maximum pressure in cylinders 800 lbs. Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 3 No. of cranks 3
Mean indicated pressure 112.5 Firing order in cylinders 1-3-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6.15/16"
Is there a bearing between each crank Yes. Moment of inertia of flywheel (16 m² or Kg.-cm.²) 1164 lbs.ft.² Revolutions per minute 1000
Flywheel dia. 26" Weight 420 lbs. Means of ignition Compression Kind of fuel used Diesel Oil.Crank Shaft, dia. of journals as per Rule 3" Crank pin dia. 3" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis
as fitted 3" Mid. length thickness 1.11/shrunk 16" Thickness round eye holeFlywheel Shaft, diameter as per Rule C' shaft. Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)
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 No 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 150 gals./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 D.P. C.W. CR. Machine No. 23685.

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 Applied for 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.

The foregoing is a correct description,

Ruston & Hornsby Limited,

Manufacturer.

Engineering Divn.



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