

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 668

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4c.

of writing Report 6th March 1956 When handed in at Local Office - 19 - Port of Augsburg, Moritzplatz 4

Survey held at Ulm (Donau) Date, First Survey - and Last Survey 10. Febr. 1956

Book. "Zingaw" Number of Visits 2

on the Single Screw vessel - Tons -

at Mainz - Kastel By whom built Messrs. Ruthof Yard No. - When built -

Engines made at Ulm By whom made Messrs. Klöckner-Humboldt-Deutz AG. Engine No. 1855 749-52 When made 1956

Generators made at - By whom made - Generator No. - When made -

of Sets 2 B.H.P. of each Set 45 M.N. of each Set as per Rule - Capacity of each Generator - Kilowatts -

Set intended for essential services -

L ENGINES, &c.—Type of Engines A4L 514 Standard Type 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 70 kg/cm² Diameter of cylinders 110 mm Length of stroke 140 mm No. of cylinders 4 No. of cranks 4

Mean indicated pressure 6.2 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 114

Is there a bearing between each crank - Moment of inertia of flywheel (16 m² or Kg.-cm.²) 12.4 kgm² Revolutions per minute 1250

Crank wheel dia. 485 mm Weight 80 kg Means of ignition compression Kind of fuel used gasoil

Drop crank Shaft, Solid forged dia. of journals as per Rule Crank pin dia. 75 mm Crank Webs Mid. length breadth 116 mm Thickness parallel to axis -

Crank wheel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m² or Kg.-cm.²) -

Are means provided to prevent racing of the engine 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 no

Air Blower -

Cooling Water Pumps, No. and how driven V Belts Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size 1 x 0.375 m³/h eff. each

Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Exhausting Air Pumps or Blowers, No. - How driven -

AIR RECEIVERS:—Have they been made under Survey - State No. of Report or Certificate -

(other than main engines) State full details of safety devices -

Are the internal surfaces of the receivers be examined and cleaned -

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 -

Low Pressure Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -

Seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -

ELECTRIC GENERATORS:—Type -

Pressure of supply - volts. Full Load Current - Amperes. Direct or Alternating Current -

Is the alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

and off - Generators, are they compounded as per Rule - 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 -

Are the generators shielded that they cannot be accidentally earthed, short circuited, or touched - Are the lubricating arrangements of the generators as per Rule -

Do the generators are under 100 kw. full load rating, have the makers supplied certificates of test - and do the results comply with the requirements -

Do the generators are 100 kw. or over have they been built and tested under survey -

State full details of driven machinery other than generator -

PLANS.—Are approved plans forwarded herewith for Shafting A 0152-05-19.01 Receivers - Separate Tanks -

(If not, state date of approval) DSF 25.1.51 Have Torsional Vibration characteristics if applicable been approved not applicable Armature shaft Drawing No. -

(State date of approval and name of previous duplicate case, if any) Are the spare gear required by the Rules been supplied as per Rules

The foregoing is a correct description,
KLOCKNER-HUMBOLDT-DEUTZ
ULM

Manufacturer.



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