

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18386

Received at London Office 26 SEP 1951

of writing Report 3rd Sept 19 51 When handed in at Local Office 3rd Sept 19 51 Port of BRISTOL
Survey held at Sharpness Date, First Survey 25th January 49 Last Survey 29th August 19 51
Screw vessel "CHRISTINA DAWN" ex LCG(M)120 Tons Gross 312.55 Net
London By whom built General Steam Navigation Co. Yard No. When built 1945
I. P. Langford (Shipping) Ltd. Port belonging to Gloucester
Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd. Contract No. CS.45700 When made
Generators made at - By whom made - Contract No. - When made -
of Sets one Engine Brake Horse Power 9 M.N. as per Rule 2.02 Total Capacity of Generators - Kilowatts.
Set intended for essential services Yes

ENGINES, &c.—Type of Engines heavy oil, airless injection, 1JPM 2 or 4 stroke cycle 4 Single or double acting single
Maximum pressure in cylinders 800 lbs Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 1 No. of cranks 1
Firing order in cylinders - Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 3/4"
here a bearing between each crank - Moment of inertia of flywheel (16 m² or Kg.-cm.²) - Revolutions per minute 1000
Crank shaft dia. 26" Weight 310 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 4 1/2" Thickness parallel to axis -
as fitted 3" Mid. length thickness 3 1/2" shrunk Thickness round eyehole -
Crank wheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - General armature, moment of inertia (16 m² or Kg.-cm.²) -
as fitted -

Means provided to prevent racing of the engine when declutched Yes Means of lubrication Forced Kind of damper if fitted -
the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged
14 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 - engine driven
Compressors, No. none No. of stages - Diameters - Stroke - Driven by -
Suctioning Air Pumps, No. none Diameter - Stroke - Driven by -

RECEIVERS:—Have they been made under Survey none - hand starting only State No. of Report or Certificate -
Each receiver, which can be isolated, fitted with a safety valve as per Rule -
The internal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -
Here a drain arrangement fitted at the lowest part of each receiver -
High Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
Unless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -
Suctioning Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -
Unless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

ELECTRIC GENERATORS:—Type English Electric Co. comitator excitation, continuous rating
Voltage of supply 220 volts Full Load Current 33.8 Amperes Direct or Alternating Current D.C.
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 Yes Generators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field -
All terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced
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 - and do the results comply with the requirements -
If the generators are 100 kw. or over have they been built and tested under survey No

Shafts of driven machinery other than generator Auxiliary Bilge & Ballast Pump Mono type 30 tons hr.
ANS.—Are approved plans forwarded herewith for Shafting No Receivers - Separate Tanks -
(If not, state date of approval)
Torsional Vibration characteristics if applicable been approved - Armature shaft Drawing No. -
(state date of approval)

PIRE GEAR

The foregoing is a correct description,

Manufacturer.



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