

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 108800

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 Date of writing Report 5th June 1940 When handed in at Local Office 12 JUN 1940 Port of London
 No. in Survey held at Bedford Date, First Survey 12th April 40 Last Survey 16th May 1940
 Reg. Book. Number of Visits 6
 on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel Tons { Gross _____ Net _____
 Built at Hong Kong By whom built Hong Kong & W. H. Allen & Co. Ltd. Yard No 836. When built _____
 Owners _____ Port belonging to _____
 Oil Engines made at _____ By whom made _____ Contract No. K/87506. When made 1940.
 Generators made at Bedford By whom made W. H. Allen & Co. Ltd. Contract No. E/87507. When made 1940.
 No. of Sets 3 Engine Brake Horse Power 126 Nom. Horse Power as per Rule 72 Total Capacity of Generators 85 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 700 Diameter of cylinders 230 7 Length of stroke 300 No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 282 7 Is there a bearing between each crank yes
 Revolutions per minute 575 Flywheel dia. 1200 7 Weight 2800 lb Means of ignition Compression Kind of fuel used Diesel oil
 Crank Shaft, dia. of journals as per Rule 132 7 as fitted 140 7 Crank pin dia. 150 7 Crank Webs Mid. length breadth 200 7 Thickness parallel to axis ✓
 as fitted 140 7 Mid. length thickness 70 7 shrunk Thickness around eye hole ✓
 Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thickness of cylinder liners 17 7
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Forced.
 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. Two, centrifugal Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
 Lubricating Oil Pumps, No. and size One Rotary.
 Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

AIR RECEIVERS:—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 Open type.

Pressure of supply 220 volts Full Load Current 387 Amperes Direct or Alternating Current Direct

If alternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found efficient when the whole 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 ✓

PLANS. Are approved plans forwarded herewith for Shifting 5.12.38. Receivers ✓ Separate Tanks ✓

SPARE GEAR One inlet valve complete; one exhaust valve complete; one relief valve; one starting air valve; one injector; Three nozzles; one set of piston rings; six cylinder head studs & nuts; 2 bottom end bolts & nuts; 2 main bearing bolts & nuts; one gudgeon pin & bush One bottom end bearing; one fuel injection pipe, one fuel pump complete one set of brush holders & brushes for generator etc.

The foregoing is a correct description.

W. H. ALLEN, SONS & Co., Ltd. Manufacturer.

K. A. Clarke. 5/6/40.



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