

RECEIVED

Rpt. 4c.

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 114659

27 JAN 1947

Received at London Office 22 JAN 1947

Date of writing Report 22 JAN 1947 When handed in at Local Office 22 JAN 1947 Port of LONDON

No. in Survey held at Beafou Date, First Survey 17 SEPTEMBER Last Survey 17 DECEMBER 1946 Reg. Book. ACCRA Number of Visits 12

Built at Barrow By whom built Vickers Armstrong & Co Ltd Yard No. 948 When built

Owners Elder Dempster Lines Port belonging to

Oil Engines made at Bedford By whom made N H Allen Sons & Co Ltd Contract No. K2/58412 When made 1946

Generators made at " By whom made " " " " Contract No. E2/58413 When made " Total Capacity of Generators 275 Kilowatts.

OIL ENGINES, &c.—Type of Engines Diesel 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 700 lbs Diameter of cylinders 325 Length of stroke 370 No. of cylinders 6 No. of cranks 6

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 362 Is there a bearing between each crank yes

Revolutions per minute 410 Flywheel dia 1600 Weight 5700 lb Means of ignition Kind of fuel used

Crank Shaft, dia. of journals as per Rule 2307 as fitted Crank pin dia. 2052 Crank Webs Mid. length breadth 3062 Thickness parallel to axis 882 shrunk Thickness round eye-hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thickness of cylinder liners 152

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. One Centrifugal each engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One Rotary Gear Type each engine

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. 4 Total cubic capacity 44.8 cu ft Internal diameter 24 thickness 5/16

Seamless, lap welded or riveted longitudinal joint welded & riveted Material Steel Range of tensile strength 26/30 Working pressure by Rules 3000 lbs

ELECTRIC GENERATORS:—Type Open Direct or Alternating Current D.C

Pressure of supply 220 volts Full Load Current 1250 Amperes

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 and do the results comply with the requirements If the generators are 100 kw. or over have they been built and tested under survey yes

PLANS.—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

SPARE GEAR 3 Main & 1 Thrust Brg, 2 Main Brg Studs, 2 Piston Assemblies, 36 Piston Rings, 12 scraper rings, 2 Gudgeon pins, 1 Conn. Rod, 2 Crankpin Brgs Bolts, 2 small-end brgs, 12 Cyl Hd joints

24 Liner joints, 2 Cyl Liners, 3 I/E Valve Roller Guides, 3 Push Rods, 3 Fuel Pump Roller Guides, 2 Cyl Hd Studs & nuts, 1 Cyl Hd Assy all Valves, 1 Relief Valve, 1 Hg Air Valve, 10 Inlet & 10 Exhaust Valve Assths, 20 Inlet & 20 Exhaust Valves with springs, 10 Injectors, 20 Nozzles, 1 Camshaft Chain

1 set springs, 4 Fuel Pumps, 1 set Lub oil pump wheels, 2 Lub oil & 4 Fuel oil strainers, 1 Water pump Impeller & Chain, Generator spares: 1 Bearing, 4 sets of Brushes

2 Brush Holders, 12 Brush springs

The foregoing is a correct description,

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

A. H. Clarke. 3/1/47.



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005258-005268-0135

