

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Date of writing Report 25 Jun 1945 When handed in at Local Office Bedford. Port of London
 No. in Survey held at Reg. Book. 20 JUL 1945 Date. First Survey 6 April Last Survey 4 July 1945
 Single on the Twin Triple Quadruple Screw vessel "NORHVAL" Number of Visits 16
 Built at Haverhill Hill on Lee. By whom built Furness L.B. Co Ltd Yard No. 388 When built 1945
 Owners Norwegian Government Port belonging to W H Allen Sons & Co Ltd
 Oil Engines made at Bedford By whom made W H Allen Sons & Co Ltd Contract No. 12/51828 When made 1945
 Generators made at Bedford By whom made " " " Contract No. 12/51829 When made 1945
 No. of Sets 3 Engine Brake Horse Power 600 Nom. Horse Power as per Rule 15-0 each Total Capacity of Generators 400 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil 2 or 4 stroke cycle 2 Single or double acting single
 Maximum pressure in cylinders 800 lb/sq. in. Diameter of cylinders 290 mm Length of stroke 470 mm No. of cylinders 5 No. of cranks 5
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 352 mm
 Revolutions per minute 333 Flywheel dia. 1500 mm Weight 4750 kg Is there a bearing between each crank yes
 Crank Shaft, dia. of journals as per Rule 229 mm as fitted 230 mm Crank pin dia. 200 mm Means of ignition Compression Kind of fuel used Heavy oil
 Flywheel Shaft, diameter as per Rule Crank shaft Intermediate Shafts, diameter as per Rule Crank shaft as fitted Crank shaft Crank Webs Mid. length breadth 320 mm Mid. length thickness 93 mm Thickness parallel to axis shrink Thickness around eye-hole shrink
 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 yes
 Cooling Water Pumps, No. one Centrifugal Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
 Lubricating Oil Pumps, No. and size one Rotary Geared Type
 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 yes State No. of Report or Certificate —
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes
 Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces yes
 Is there a drain arrangement fitted at the lowest part of each receiver yes
 High Pressure Air Receivers, No. — Cubic capacity of each — Internal diameter — thickness —
 Seamless, lap welded or riveted longitudinal joint yes Material Steel Range of tensile strength — Working pressure by Rules —
 Starting Air Receivers, No. 1 per Engine Total cubic capacity 11.2 cu ft Internal diameter 2' 0" Working pressure by Rules 5/16"
 Seamless, lap welded or riveted longitudinal joint lap welded & riveted Material Steel Range of tensile strength 26/30 Working pressure by Rules 300 lb/sq. in.

ELECTRIC GENERATORS:—Type open 1818 normal Amperes. Direct or Alternating Current Direct
 Pressure of supply 220 volts. Full Load Current 1900
 If alternating current system, state the periodicity yes 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 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 yes

PLANS. Are approved plans forwarded herewith for Shafting 12.12.38. Receivers yes Separate Tanks —
 (If not, state date of approval)
 SPARE GEAR! Piston: 1 Cyl liner; 20 Piston Rings; 5 Scraper Rings; 1 Main bearing 2 Main Big bolts
 5 Exhaust Valves & Springs; 1 Fuel Injector; 6 Nozzles; 1 Fuel pump & 2 spare plungers
 1 Lub oil pump; 1 Alg air Valve assembly; 1 Relief Valve assembly; 1 set of slide nuts for 1 cyl.
 1 Gudgeon pin & bearing; 1 bottom end bearing bolts; 3 sets Springs for 1 cyl; 3 Fuel Injection
 pipes etc; etc; Two brush holder & 1 set of brushes.

The foregoing is a correct description,

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

A. Clarke. 28/6/45.



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