

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12607

Date of writing Report 19. When handed in at Local Office 13th July 1946 Port of MANCHESTER.

Received at London Office 16 JUL 1946

No. in Survey held at ASHTON-UNDER-LYNE. Date, First Survey 8th March, 1946. Last Survey 5th July, 1946.

Reg. Book. Single on the Twin Triple Screw vessel M.V. REGENT TIGER Number of Visits 3. Tons Gross 9860 Net 5931

Built at By whom built Swan Hunter & Wigham Richardson Ldy Yard No. 1743. When built 1946.

Owners Port belonging to Engine

Oil Engines made at Ashton-Under-Lyne. By whom made National Gas & O.E. Co. Ltd. No. 57908. When made 1946.

Generator made at Sunderland. By whom made The Sunderland Forge & Eng. Co. Ltd. No. G.4961. When made 1946.

No. of Sets One. Engine Brake Horse Power 20. Nom. Horse Power as per Rule 5 Total Capacity of Generators 10. Kilowatts.

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

Maximum pressure in cylinders 950. Diameter of cylinders 4 1/8". Length of stroke 6". No. of cylinders Two. No. of cranks Two.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 9/16". Is there a bearing between each crank Yes.

Revolutions per minute 1000. Flywheel dia 25". Weight 342 lbs. Means of ignition Compression. Kind of fuel used Diesel.

Crank Shaft, dia. of journals as per Rule Approved 3 1/4". Crank pin dia 3". Crank Webs Mid. length breadth 4 1/8". Thickness parallel to axis -

as fitted 3 1/4". Mid. length thickness 0.99". shrunk Thickness round eyehole Solid.

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/8".

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 No. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -

Cooling Water Pumps, No. 1 Centrifugal Pump. Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size One incorporated in 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. 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 Compound wound, Continuous Rating.

Pressure of supply 110 volts. Full Load Current 91. Amperes. Direct or Alternating Current Direct.

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. Generators, are they compounded as per Rule. 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

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 Shafting 17th Sept., 1945. Receivers. Separate Tanks.

SHAFTING GEAR AS PER RULE REQUIREMENTS.

The foregoing is a correct description,

THE NATIONAL GAS AND OIL ENGINE Co. Ltd. Manufacturer.



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004534-004540-0088

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ENCLOSURE
General 1000 envelopes, success sheets, (Grand Jury) (Grand Jury)