

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 105081

Date of writing Report 29-10-1937. When handed in at Local Office 4 NOV 1937 Port of Ipswich. Received at London Office 4 NOV 1937

No. in Survey held at Colchester. Date, First Survey 16-8-37 Last Survey 27-10-1937. Number of Visits FOUR.

Single on the Twin Triple Screw vessel

Built at Hematon. By whom built The Furness S. B. Co. Ltd. Yard No. 283. When built 1937.

Owners

Oil Engines made at Colchester. By whom made Davey, Paxman & Co. (Colchester) Ltd. Contract No. 1002. When made 1937.

Generators made at Sunderland. By whom made Sunderland Eng. & Eng. Co. Ltd. Contract No. E-5388. When made 1937.

No. of Sets one Engine Brake Horse Power 27/30 Nom. Horse Power as per Rule 9 Total Capacity of Generators 16 Kilowatts.

## OIL ENGINES, &amp;c.—Type of Engines

Heavy Oil

2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 750 lb. Diameter of cylinders 4 5/8" Length of stroke 5 7/8" No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8" Is there a bearing between each crank No

Revolutions per minute 650 Flywheel dia. 28" Weight 500 lb. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 3 1/8" as fitted 3 1/8" Crank pin dia. 2 7/8" Crank Webs Mid. length breadth 1 1/4" Mid. length thickness 4 1/2" Thickness parallel to axis shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted 3 1/8" Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 1/8"

Is a governor or other arrangement fitted to prevent racing of the engine when disengaged No 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. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One geared, 5/8" suction &amp; delivery.

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

Enclosed unit, drip proof

Pressure of supply 110 volts. Load 145.5 Amperes. Direct or Alternating Current Direct.

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off No

Generators, do they comply with the requirements regarding rating are they compound wound

are they over compounded 5 per cent. if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field Are all terminals accessible, clearly marked, and furnished with sockets

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

## PLANS. Are approved plans forwarded herewith for Shafting

26-4-37

Receivers

Separate Tanks

## SPARE GEAR

The foregoing is a correct description,

DAVEY, PAXMAN &amp; Co. (Colchester) Limited

Manufacturer.

Manufacturer.



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Dates of Survey while building { During progress of work in shops - 16.8.37. 25.8.37. 3.9.37, 27.10.37.  
During erection on board vessel - - -  
Total No. of visits Four

Dates of Examination of principal parts—Cylinders 16.8.37 Covers 16.8.37 Pistons 25.8.37 Piston rods -

Connecting rods 25.8.37. Crank and Flywheel shaft 25.8.37 Intermediate shaft ✓

Crank and Flywheel shafts, Material Stul. Identification Mark LLOYDS. N° 6375. MAR. 5.8.36.

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case - If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, etc.)

The engine has been constructed under Special Survey in accordance with the approved plans & Rule Requirements. The materials & workmanship are sound & of good description. The engine has been tested in the Shop under full & overload conditions and the governor tested & found satisfactory. The engine has been dispatched to be fitted on board a classed vessel.

J. J. 20

The amount of Fee ... £ 5 : 5 :

When applied for, -4 NOV 1937

Travelling Expenses (if any) £ : 5/6 :

When received, 8. 11. 1938

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 18 OCT 1938

Assigned

See minute re E. machinery.



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