

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 2006

Received at London Office

8 SEP 1943

Date of writing Report 30th July 43 When handed in at Local Office 9th Aug. 1943 Port of MOBILE, ALABAMA

No. in Survey held at MOBILE Date, First Survey 15th April Last Survey 2nd July 1943
Reg. Book. Number of Visits 885011 on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel M.V. "ST. JAMES" (ex "WILLIAM C. McTARNAHAN") Tons { Gross 7302
Net 5826

Built at Mobile, Alabama By whom built Alabama D.D. & S.B. Co. Yard No. 223 When built 1941

Owners U.S. War Shipping Administration Port belonging to Wilmington, Del.

Oil Engines made at Mattoon, Ill. By whom made Atlas Imperial Diesel Engine 20935, 6 & 7 When made 1943

Generators made at Ampere, N.J. By whom made Crocker Wheeler Co. Contract No. - When made 1941

No. of Sets 3 Engine Brake Horse Power 750 Nom. Horse Power as per Rule 175 Total Capacity of Generators 475 Kilowatts.

OIL ENGINES, &c.—Type of Engines 3 Diesel Auxiliaries 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 750 lbs. Diameter of cylinders 9" Length of stroke 10 1/2" No. of cylinders (1)-6 No. of cranks (1)-6

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 10" Is there a bearing between each crank yes

Revolutions per minute 514 Flywheel dia. 34" Weight 1500 lbs. Means of ignition solid injection Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule approved as fitted 6-7/8" Crank pin dia. 6-7/8" Crank Webs Mid. length breadth 10" Thickness parallel to axis -
Mid. length thickness 2-7/8" shrunk Thickness around eyehole -

Flywheel Shaft, diameter as per Rule approved as fitted 6-7/8" Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 11/16"

Is a governor or other arrangement fitted to prevent racing of the engine ~~under control~~ 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 water cooled.

Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size 1 each - 18 G.P.M. for 6 cylinder, 24 G.P.M. for 8 cylinder

Air Compressors, No. none No. of stages - Diameters - Stroke - Driven by -

Scavenging Air Pumps, No. none 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 2 - 175 K.W. 1 - 125 K.W. (Original machines)

Pressure of supply 220 volts. Load 2-700, 1-500 Amperes. Direct or Alternating Current D.C.

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 yes

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

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

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

PLANS. Are approved plans forwarded herewith for Shafting May 23, 1940. Receivers - Separate Tanks -
(If not, state date of approval)

SPARE GEAR

As per Rule requirements.

The foregoing is a correct description,

ALABAMA DRY DOCK & SHIPBUILDING CO.

Assistant General Superintendent

Manufacturer.



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Foundation

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REPORT ON OIL ENGINE
Dates of Survey while building { During progress of work in shops - - April 15, 20, May 3, 18, June 12, 18, 28, July 2.
During erection on board vessel - - -
Total No. of visits 8

Dates of Examination of principal parts—Cylinders May 3rd Covers May 3rd Pistons May 3rd Piston rods -

Connecting rods May 3rd Crank and Flywheel shaft May 3rd Intermediate shaft -

Crank and Flywheel shafts, Material O.H. Forged Steel Identification Mark -

Intermediate shafts, Material - Identification Marks -

Is this machinery duplicate of a previous case yes If so, state name of vessel "PETROFUEL" & "WILLIAM C. McTARNAN"

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

These three auxiliary engines were not built under Special Survey but have been examined as far as practicable during installation; the workmanship being good.

The generators are the original generators which were returned to the makers for overhaul.

They have been installed in accordance with the Rules, tested under full working condition all found satisfactory.

It is stated that the War Shipping Administration purchased these engines from the Manufacturer's stock and their acceptance is submitted for the favourable consideration of the Committee.

The amount of Fee ... \$100.00 : When applied for, Aug. 13, 1943
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute NEW YORK AUG 18 1943
Assigned See Attached First Entry Report

R. Rodgers
Surveyor to Lloyd's Register of Shipping.