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Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1809

Received at London Office 26 JAN 1942

Date of writing Report 1st Dec. 1941 When handed in at Local Office 1st Dec. 1941 Port of MOBILE, ALABAMA

No. in Reg. Book. Survey held at MOBILE Date, First Survey 19th June Last Survey 28th July 1941 Number of Visits 4

90609 on the ~~Single~~ Twin ~~Triple~~ ~~Quadruple~~ Screw vessel "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 National Bulk Carriers, Inc. Port belonging to Wilmington, Del.

Oil Engines made at Mattoon, Ill. By whom made Atlas Imperial Diesel Eng. Co. Engine No. 20476 20477 20478 When made 1941

Generators made at Ampere, N.J. By whom made Crocker Wheeler Co. Contract No. not known When made 1941

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

OIL ENGINES, &c.—Type of Engines 3 Diesel Auxiliaries see Cleve.Rpt. 1012 2 or 4 stroke cycle 4 Single or double acting S.A.

Maximum pressure in cylinders 750 lbs. Diameter of cylinders 0 9" Length of stroke 10½ No. of cylinders 1 - 6 2 - 8 No. of cranks 1 - 6 1 - 8

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. 2'-10" Weight 1500 lbs. Means of ignition solid injection Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule ..... as fitted ~~5 7/8~~ 5¾ Crank pin dia. ~~6 7/8~~ 5¾" Crank Webs Mid. length breadth 10 Mid. length thickness 2 7/8 shrunk Thickness parallel to axis solid Thickness around eyehole .....

See Ltr. on "Petrofuel"

Flywheel Shaft, diameter as per Rule ..... as fitted ~~6 7/8~~ 5¾" **Intermediate Shafts**, diameter as per Rule - as fitted none Thickness of cylinder liners 11/16

Is a governor or other arrangement fitted to prevent racing of the engine ~~[illegible]~~ yes Means of lubrication forced

Are the cylinders fitted with safety valves yes Are the exhaust pipes ~~[illegible]~~ water cooled ~~[illegible]~~ yes

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 Rotary 18 GPM for 6 cyl. 24 GPM for 8 cyl.

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 yes

Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces manhole

Is there a drain arrangement fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. none 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. 2 Total cubic capacity 385 cu.ft. Internal diameter 48" thickness 1"

Seamless, lap welded or riveted longitudinal joint welded Material steel Range of tensile strength 55000 lbs Working pressure by Rules 407 lbs.

ELECTRIC GENERATORS:—Type 2 - 175 KW 1 - 125 KW

Pressure of supply 220 volts. **Load** ..... 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. no. Flat compounded 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 no (If not, state date of approval) Receivers yes Separate Tanks no

SPARE GEAR Please see Cleveland Rpt.1012 herewith.

The foregoing is a correct description,

Manufacturer.

011800-011804-0430

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Dates of Survey while building	
During progress of work in shops	
During erection on board vessel	1941 - July 19,22,24,28
Total No. of visits	4

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

Connecting rods - Crank and Flywheel shaft - Intermediate shaft -

Crank and Flywheel shafts, Material - Identification Mark -

Intermediate shafts, Material - Identification Marks -

Is this machinery duplicate of a previous case yes If so, state name of vessel M.V."PETROFUEL" Mobile Rpt.1786

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

These Oil Generators have now been fitted on board under Special Survey in accordance with the Rules and approved plans and the workmanship and material are good.

They have been satisfactorily tried at full load and they are now in good and safe working condition and the vessel is eligible, in my opinion, to receive the record of LMC 7,41 in the Register Book.

The amount of Fee ... ... £

Travelling Expenses (if any) £

Charged on: Electrical Report.

When applied for, ...19.....

When received, ...19.....

T. G. Wood

Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK DEC 10 1941

Assigned See Nist Entry Report attached.

1m,6,31—Transfer.

(The Surveyors are requested not to write on or below the space for Committee Minute.)