

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 3238

Date of writing Report 21st Aug 31 1934 when handed in at Local Office Cleveland, Ohio 21st Aug 10 31 Port of GALVESTON ^{Received at London Office SEP 11 1937}
 No. in Survey held 39158 on the M/V. "MERCURY" ^{Single} ^{Twin} ^{Triple} ^{Quadruple} Screw vessel Beaumont, Tex Date, First Survey June 5 Last Survey June 25 1934 (13)
 Beg. Book on board Number of Visits 2 above

Tons { Gross 1518.04
 Net 1182.00

Built at Beaumont, Texas By whom built Pennsylvania Shipyard Inc. No. 116 When built 1934-6

Owners Cleveland Tankers, Inc. Port belonging to Wilmington, Del.

Oil Engines made at Cleveland, Ohio By whom made Winton Engine Corp. Contract No. 5136 When made 1934

Generators made at East Pittsburgh Pa By whom made Westinghouse Elec Co Contract No. 8130455 When made -

No. of Sets one (1) Engine Brake Horse Power 15KW Nom. Horse Power as per Rule 7.5 Total Capacity of Generators 15 Kilowatts.

OIL ENGINES, &c. Type of Engines Winton - Model 185-3 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 400 lbs Diameter of cylinders 5" Length of stroke 4" No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/4" Is there a bearing between each crank? Yes

Revolutions per minute 600 Flywheel dia. 26" Weight 300 lbs Means of ignition Comp Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 2.88 as fitted 3" Crank pin dia. 3" Crank Webs Mid. length breadth 4 1/2" Mid. length thickness 1 7/16" Thickness parallel to axis solid Thickness around eye hole prop forging

Flywheel Shaft, diameter as per Rule - as fitted - Intermediate Shafts, diameter as per Rule - as fitted - Thickness of cylinder liners 5/16"

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 & lagged with non-conducting material? Yes (Marine Silencers)

Cooling Water Pumps, No. 1 - Gear type 5 G.P.M. Is the sea suction provided with an efficient strainer which can be cleared within the vessel? Yes

Lubricating Oil Pumps, No. and size 1 - Gear type 1.8 G.P.M.

Air Compressors, No. 1 No. of stages (2) Two Diameters 4" x 3 1/2" Stroke 4" Driven by Gears

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 See Rpt H b.

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, Westinghouse Electric & M. Co.

Pressure of supply 135 volts. Load 111 Amperes. Direct or Alternating Current Direct Current

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 no Receivers no Separate Tanks no

SPARE GEAR 2 - Exhaust valves complete with Springs, etc.

1 - Injection valve complete with cage, Springs, etc.

3 - Fuel injection valve needles.

1 - Set of piston rings for one piston.

1 - Set of working parts for one cylinder of fuel pump.

1 - Set of working parts for one lubricating oil pump.

1 - wrist pin and bushing.

1 - Complete crank pin bearing.

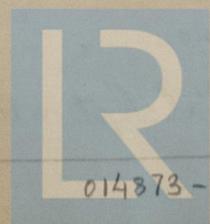
2 - crank pin bearing bolts and nuts.

2 - main bearing bolts & nuts.

1 - set of studs & nuts for cylinder head.

The foregoing is a correct description,

Signed Winton Engine Mfg. Corp. C.R.B. Manufacturer.
 (See Cleveland Rpt No 849)



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Dates of Survey while building } During progress of work in shops - - March 9, 12, 14, 20, 24, April 11, 12, 15, 18, 23, 30, May 3, 4, 1934
During erection on board vessel - - June 5, 16, 23. WR
Total No. of visits

Dates of Examination of principal parts - Cylinders 3/9-24/34. Covers 3/9-24/34. Pistons 3/9-24/34. Piston rods -

Connecting rods 3/9-24/34. Crank and Flywheel shaft 3/12/34. Intermediate shaft -

Crank and Flywheel shafts, Material O.H. Steel. Identification Mark Deep forged.

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, &c.)
The Subject engine has been built under Special Survey, and on completion was tested, coupled up to the generator, under full and intermediate loads, at the Builder's plant. The materials, workmanship, and electrical load tests were found satisfactory. The generator was not examined during construction.
Signed G. Drummond.

This generator set has been efficiently installed, and securely fitted on board the vessel, and afterwards satisfactorily tested under full and intermediate loads. See Cleveland Rpt. No. 849, attached hereto.

Wm Rennie

1m, 28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

Instl. fee shown on machy Rpt. 4c. WR	
The amount of Fee ... £	When applied for, 19...
Travelling Expenses (if any) £	When received, 19...

Wm Rennie for G. Drummond
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned See Gal. Rpt. on Oil Eng. Machy.
NEW YORK SEP 1-1937



Date of writing
No. in Reg. Book
Built at
Owners
Oil Engine
Generator
No. of St...
OIL ENGINE
Maximum
Span of b...
Revolution
Crank S...
Flywheel
Is a gover...
Are the c...
Cooling
Lubricat...
Air Com...
Scaven...
AIR I...
Can the...
Is there...
High I...
Seamles...
Startin...
Seamles...
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