

REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR SETS~~

No. 3238
11 1937

Date of writing Report 21st Aug. 37 When handed in at Local Office 21st Aug. 37 Port of GALVESTON.
No. in Survey held 2 by Mr. C. H. ... at Cleveland, Ohio. Date, First Survey March 9th Last Survey April 15th 37
Reg. Book No. 39158 on the Single Screw vessel MV. MERCURY Tons { Gross 1518.04 Net 1182.00
Triple Quadruple On board. Beaumont, Texas Date, First Survey June 5th Last Survey June 25th 19 Number of Visits 3

Built at Beaumont, Texas By whom built Pennsylvania Shipyards Inc. Ward No. 116 When built 1934-6.
Owners Cleveland Tanker Inc. Port belonging to Wilmington Del.
Oil Engines made at Cleveland, Ohio By whom made Winton Eng. Corp. Contract No. 4987 When made 1934.
Generators made at — By whom made — Contract No. — When made —
No. of Sets 2 TOTAL Engine Brake Horse Power 200 Total. Nom. Horse Power as per Rule 30 Total Capacity of Generators — Kilowatts.

OIL ENGINES, &c.—Type of Engines Winton, Model 182-6 2 or 4 stroke cycle 4 Single or double acting Single.
Maximum pressure in cylinders 700 lbs Diameter of cylinders 5" Length of stroke 4" No. of cylinders 6 No. of cranks 6
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 1000 Flywheel dia. 20" Weight 240 lbs Means of ignition Comp. Kind of fuel used Diesel Oil.
Crank Shaft, dia. of journals as per Rule 2.93" as fitted 3.0" Crank pin dia. 3" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis Solid
as fitted — Mid. length thickness 1 7/16" Thickness around eye hole 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 - (Mason Silencers)
Cooling Water Pumps, No. 1 - Gear Type 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 8.4 G.P.M.
Air Compressors, No. None 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 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 —

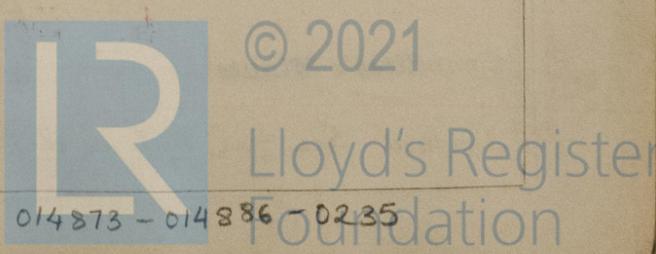
ELECTRIC GENERATORS:—Type —
Pressure of supply — volts. Load — Amperes. Direct or Alternating Current —
If alternating current system, state frequency of periods per second —
Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off —
Generators, do they 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 No Receivers No Separate Tanks No
(If not, state date of approval)

- SPARE GEAR
- 2 - exhaust valves complete with springs etc.
 - 1 - injection valve complete with cages, springs, etc.
 - 3 - fuel injection valve needles.
 - 1 - set of piston rings - 1 piston.
 - 1 - set of working parts for 1 cylinder of fuel pump.
 - 1 - set of working parts for lubricating oil pump.
 - 1 - set of studs & nuts for 1 cylinder head.
 - 1 - wrist pin complete.
 - 1 - crank pin bearing complete.
 - 1 - set wrist pin bushings.
 - 2 - crankpin bearing bolts & nuts each size used.
 - 2 - main bearing bolts & nuts each size used.

The foregoing is a correct description.

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



Rpt. 4c
 Date of ...
 No. in Reg. Book
 Built
 Owners
 Oil Eng.
 General
 No. of
 OIL E
 Maximum
 Span of
 Revoluti
 Crank
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Dates of Survey while building
 During progress of work in shops - March 9, 12, 14, 20, 27, April 11, 12, 15, 1934 G.D.
 During erection on board vessel - June 5, 16, 23, 1934 WR.
 Total No. of visits 11.

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 LLOYD'S 2913-3/13/36
 Identification Mark LLOYD'S 2899-4/30/36
 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, &c.)
 The Subject engine had been built under Special Survey, and on completion was tested under full and intermediate loads at the Builder's plant.
 The materials, workmanship and tests were found satisfactory.
 Signed G. Drummond.

These two oil engine sets have been efficiently installed, and securely fitted on board the vessel, and afterwards satisfactorily tested under full and intermediate loads. The oil engines are installed on the starboard side of the engine room and are coupled up to two cargo pumps situated in the pump room. By means of a twin disc clutch at the after end of the shaft, the starboard engine also drives a vertical air compressor.

Particulars.
 Two (2) North Rotary Pumps 8" One Vertical Air Compressor, 2 lbs
 Makers - Northern Pumps Co. Gardner Denver.
 Size 120 M. Bore, LP 6 1/2" HP 2 3/4" Stroke 5 1/2"
 R.P.M. 336. R.P.M. 870. Press 600 lbs.
 B.H.P. 100. 92 cub ft.
 Serial No. 135 & 136. Model ABE 1004. Serial No. 74060

See Cleveland Rpt. No. 849, also Forging Rpts No. 2913 & 2899 attached hereto.

Wm. Rennie

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

Instr. Fee shown on Machy Rpt. H.B.
 The amount of Fee ... £
 Travelling Expenses (if any) £
 When applied for, 19
 When received, 19

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



1m.9.25 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)