

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 3238

Date of writing Report 21<sup>st</sup> Aug. 34 when handed in at Local Office 21<sup>st</sup> Aug. 10 34 Port of GALVESTON  
in the ship Cleveland, Ohio. March 9<sup>th</sup> 1934 (13)  
 No. in Survey held on board Beaumont, Tex. Date, First Survey June 5<sup>th</sup> Last Survey June 25<sup>th</sup> 1934 (13)  
 Reg. Book 39158 on the Single Twin Triple Quadruple Screw vessel M/V. "MERCURY" Tons { Gross 1518.04 Net 1182.00  
 Number of Visits 61 above

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 700 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 Crank pin dia. 3" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis solid  
as fitted 3" Mid. length thickness 1 1/16" Thickness around eye hole prop. forging  
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 5/16"  
as fitted 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 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 GPM  
 Air Compressors, No. 1 No. of stages (2) Two Diameters 4" & 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 4 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.

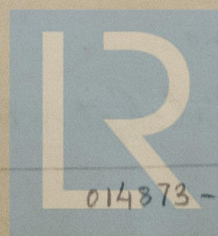
2 - Crank pin bearing bolts and nuts.

2 - main bearing bolts & nuts.

1 - Set of studs & nuts for cylinder head.

The foregoing is a correct description,

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



© 2021

Lloyd's Register  
Foundation

014873-014886-0237



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. W.R.  
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 Builders 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

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

Instl. fee shown on machy Rpt. 4c. W.R.  
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



© 2021

Lloyd's Register Foundation