

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 849

Date of writing Report June 2, 1937 When handed in at Local Office 19 Port of Cleveland, Ohio. Received at London Office 11 1937

No. in Survey held at Cleveland, Ohio. Date, First Survey March 9th, Last Survey April 15th, 1937.

Reg. Book. 8 Number of Visits

on the ~~Twin~~ Single Screw vessel M/S "MERCURY" Tons { Gross \_\_\_\_\_ Net \_\_\_\_\_

Built at Beaumont, Texas By whom built Pennsylvania Shipyards Yard No. 116 When built 1937

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

Oil Engines made at Cleveland, Ohio By whom made Winton Engine Corp. Serial ~~XXXXX~~ No. 4987 When made 1937

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 S

Maximum pressure in cylinders 700# Diameter of cylinders 5" Length of stroke 7" 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# Means of ignition Comp. Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 2.93" Crank pin dia. 3" Crank Webs Mid. length breadth 4-1/2" Thickness parallel to axis ✓

as fitted 3" Mid. length thickness 1-7/16" Thickness around eye-hole

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

as fitted as fitted

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced feed

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material ✓

Cooling Water Pumps, No. 1 - Gear Type 12 G.P.M. Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

Lubricating Oil Pumps, No. and size 1 - Gear Type 8.7 G.P.M.

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 ✓

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 studs and nuts for 1 cylinder head.
- 1 - wrist pin complete.
- 1 - crankpin bearing complete.
- 1 - set wristpin bushings.
- 2 - crankpin bearing bolts and nuts each size used.
- 2 - main bearing bolts and nuts each size used.

The foregoing is a correct description.

Winton Engine Mfg. Corp. - 3 RBS. Manufacturer.



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REPORT ON THE ENGINE  
2859  
4/10/38 GD  
Rpt. 4c.

Dates of Survey while building { During progress of work in shops - - } March 9, 12, 17, 20, 27; April 11, 12, 15, 1937.  
{ During erection on board vessel - - - } ✓  
Total No. of visits ✓

Dates of Examination of principal parts—Cylinders 3/9-27/37 Covers 3/9-27/37 Pistons 3/9-27/37 Piston rods ✓  
Connecting rods 3/9-27/37 Crank and Flywheel shaft 3/12/37 Intermediate shaft ✓

Crank and Flywheel shafts, Material O.H. Steel Identification Mark LLOYDS 2913 3/13/36 GD  
LLOYDS 2899 4/30/36 GD

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 under full and intermediate loads at the Builder's plant.

The materials, workmanship and tests were found satisfactory.

Attached to this report are forging reports Nos. 2913 and 2899.

The amount of Fee ... £ ✓ : When applied for, ✓ 19  
Travelling Expenses (if any) £ ✓ : When received, 19

*E. Drummond*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK SEP 1-1937

Assigned See Gal. Rpt. 3238



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