

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

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. Number of Visits 8

on the ~~Single~~ ^{Twin} Screw vessel M/S "MERCURY" Tons { Gross _____ Net _____

Built at Beaumont, Texas By whom built Pennsylvania Shipyards Yard No. 116 When built 1937
Wilmington, Del.
 Owners Cleveland Tankers, Inc. Port belonging to 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 eyehole _____

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 R.R.B. Manufacturer.

2299
4/30/36 GD
54 398

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.

Date of seri
No. in
Reg. Book
39158

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1m, 9, 28 - Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

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

J. Drummond
Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK SEP 1-1937
Assigned See Gal. Rpt. 3238

