

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 508

Received at London Office

Date of writing Report May 16 1930 When handed in at Local Office

Port of Cleveland, Ohio

in Survey held at Cleveland, Ohio

Date, First Survey April 28th, Last Survey May 9th 1930

Book.

Number of Visits 9

on the <sup>Single</sup>~~Triple~~ Screw vessel L.T.C. No 1  
~~Quincy~~Tons { Gross 548  
Net 321

built at Fore River, Mass.

By whom built Bethlehem S. B. Co.

Yard No. 1436 When built 1930

owners LAKE TANKERS CORP

Port belonging to WILMINGTON DEL.

Engines made at Cleveland

By whom made Winton Engine Co.

Engine No. 3803 When made 1930

Generators made at SCHNECTADY

By whom made General Electric Co.

Contract No. When made 1930

No. of Sets 1 Engine Brake Horse Power Nom. Horse Power as per Rule Total Capacity of Generators 15 Kilowatts.

ENGINES, &amp;c.—Type of Engines Winton Diesel 2 or 4 stroke cycle 4 Single or double acting S.

Maximum pressure in cylinders 650 lbs. Diameter of cylinders 6 1/2" Length of stroke 8" No. of cylinders 2 No. of cranks 2

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 8 1/8" Is there a bearing between each crank Yes

Revolutions per minute 650 Flywheel dia. 36" Weight 1050 lbs. Means of ignition Solid inf Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 3 1/2" as fitted 4 1/4" Crank pin dia. 4 1/2" Crank Webs Mid. length breadth 6" Thickness parallel to axis 2 1/4" shrunk Mid. length thickness 2 1/4" Thickness around eyehole

Flywheel Shaft, diameter as per Rule 3 1/2" as fitted 4 1/4" Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 35/64"

Is a governor or other arrangement fitted to prevent racing of the engine when decoupled 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 LAGGED

Cooling Water Pumps, No. 15 1/2 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 - 3.34 G.P.M. displacement

Air Compressors, No. No. of stages Diameters Stroke Driven by

Serving Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Are 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

Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Working Air Receivers, No. Total cubic capacity Internal diameter thickness

Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Compound interpole

Voltage of supply 125 volts Load 120 Amperes Direct or Alternating Current D.C.

Is an 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

ANS. Are approved plans forwarded herewith for Shafting Yes Receivers Separate Tanks

ARE GEAR To Rule requirements.

The foregoing is a correct description.

Winton Engine Co. S. B. Walter Manufacturer.



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Foundation

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REPORT ON OIL ENGINE  
1930: April 22, 23. May 1, 2, 5, 6, 7, 8, 9.  
During progress of work in shops - -  
During erection on board vessel - - -  
Total No. of visits 14

Dates of Examination of principal parts—Cylinders Apr. 22 to May 6. Covers Apr. 22 to May 6. Pistons Apr. 22 to May 6. Piston rods

Connecting rods Apr. 22 to May 2. Crank and Flywheel shaft April 22nd and 23rd. Intermediate shaft

Crank and Flywheel shafts, Material O. H. Steel Identification Mark Lloyd's, 2191, G.D.

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 above mentioned engines have been built under Special Survey and on completion were tested in the Shop, coupled to the generators, under full and intermediate loads, with satisfactory results. The workmanship and materials were found to be sound and efficient.

Enclosed herewith is forging Report No. 2191

THE ABOVE MENTIONED ENGINE HAS BEEN FITTED ON BOARD THE QUALITY OF WORKMANSHIP Y MATERIALS IS GOOD IT HAS BEEN TESTED UNDER WORKING CONDITIONS Y FOUND SATISFACTORY AND IN THE OPINION OF THE UNDERSIGNED MERITS THE FAVOURABLE CONSIDERATION OF THE COMMITTEE.

Fee charged in accordance with agreement with Winton Engine Company. Request No. 194

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

B. Brown  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JUN 18 1930

Assigned See Reports attached



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