

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 526

Received at London Office

28 JUL 1930

Date of writing Report May 16 1930 When handed in at Local Office 19 Port of Cleveland, Ohio
No. in Survey held at Cleveland, Ohio Date, First Survey April 22nd Last Survey May 9th 1930
Reg. Book. Number of Visits 9

on the Single Triple Quadruple Screw vessel "L.T.C. No 3"
Tons Gross 548 Net 321

Built at Fore River, Mass. By whom built Bethlehem S. B. Co. Yard No. 1442 When built 1930

Owners LAKE TANKERS CORP. Port belonging to WILMINGTON DEL.

Oil Engines made at Cleveland By whom made Winton Engine Co., Engine No. 3805 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.

ALL ENGINES, &c. Type of Engines Winton Diesel - Model 153-2 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

Span 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. 35" Weight 1050 lbs. Means of ignition Solid inj. Kind of fuel used Diesel oil

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

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

Is a governor or other arrangement fitted to prevent racing of the engine when declutched 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 YES.

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.

Air Compressors, No. 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

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 interpole

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

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 Yes Receivers Separate Tanks

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The foregoing is a correct description.
Winton Engine Co. Manufacturer.



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Foundation

009004-009007-986

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - - }
Total No. of visits

1930: April 22, 23 May 1, 2, 5, 6, 7, 8, 9.

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 April 22nd 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, 2192, G.D.

Intermediate shafts, Material

Identification Marks

Is this machinery duplicate of a previous case YES If so, state name of vessel "LTC. No 1" "LTC. No 2"

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. 2192

THIS ENGINE HAS BEEN FITTED ON BOARD THE VESSEL, TESTED UNDER WORKING CONDITIONS AND FOUND SATISFACTORY. QUALITY OF WORKMANSHIP & MATERIALS GOOD, 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. Stewart Humphreys
G. Drummond
Surveyor to Lloyd's Register of Shipping.

NEW YORK JUL 16 1930

Committee's Minute

Assigned See N.Y.K. 31527



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