

Boston.

4c. 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 19 Port of Cleveland, Ohio Date, First Survey April 22nd, Last Survey May 9th 1930 Number of Visits 9

in Survey held at Cleveland, Ohio Book. on the Single Triple Quadruple Screw vessel L.T.C. No 1 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

Number of Sets 1 Engine Brake Horse Power Nom. Horse Power as per Rule Total Capacity of Generators 15 Kilowatts.

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

Distance between 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 inj 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 there a governor or other arrangement fitted to prevent racing of the engine when de-clutched 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

Number of 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

Number of Lubricating Oil Pumps, No. and size 1 - 3.34 G.P.M. displacement

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

Number of Sucking 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 examined What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver

Number of High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Material Range of tensile strength Working pressure by Rules

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

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.

Is it 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

Do the 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

Are all terminals accessible, clearly marked, and furnished with sockets 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. Walker Manufacturer.



008231-008236-0158

REPORT ON OIL ENGINE

Dates of Survey while building { During progress of work in shops - - 1930: April 22, 23. May 1, 2, 5, 6, 7, 8, 9.
 { During erection on board vessel - - - 1930 MAY 14-15-20, 23-28
 { 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. Howard Humphreys
E. Drummond
 Surveyor to Lloyd's Register of Shipping.

NEW YORK JUN 18 1930

Committee's Minute
 Assigned See Reports attached *CRB*



Im. 9.28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)