

Boston

REC'D NEW YORK JUN 25 1930

Form 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 525

12 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 22 Apr. Last Survey May 9 1930
 Reg. Book. _____ Number of Visits 9
 on the Tripte Screw vessel "LTC No 2" Tons { Gross 548
 Net 321
 Built at Gore River, Mass By whom built Keblehem S. B. Coy. Yard No. 1437 When built 1930
 Owners LAKE TANKERS CORP. Port belonging to WILMINGTON DEL.
 Oil Engines made at Cleveland By whom made Winton Eng. Co. Contract No. 3804 When made 1930
 Generators made at SCHNECTADY By whom made Gen. Elect. Coy. 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.

OIL ENGINES, &c.—Type of Engines Winton Diesel model 15-3-2. 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 Kind of fuel used Diesel oil
 Crank Shaft, dia. of journals as per Rule 3 1/2" Crank pin dia. 4 1/4" Mid. length breadth 6" Thickness parallel to axis _____
 as fitted 4 1/4" Crank Webs _____ shrunk _____
 Mid. length thickness 2 1/4" Thickness around eyehole _____
 Flywheel Shaft, diameter as per Rule _____ Intermediate Shafts, diameter as per Rule _____ Thickness of cylinder liners 3/64"
 as fitted 4 1/4" as fitted _____
 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 LAGGED
 Cooling Water Pumps, No. 15 1/4 S.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 S.P.M. displacement

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 _____
 (If not, state date of approval)
 SPARE GEAR To Rule requirements

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



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 Foundation

1930

Dates of Survey while building { During progress of work in shops - - } Apr. 22, 23. May 1, 2, 5, 6, 7, 8, 9.
 { During erection on board vessel - - - } MAY 2, 6, 7, JUNE 9, 10, 12.
 Total No. of visits 15.

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 Apr 22 - 23 Intermediate shaft
 Crank and Flywheel shafts, Material Off. Steel Identification Mark Lloyd's 2190 SD.
 Intermediate shafts, Material Identification Marks

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

General Remarks (State quality of workmanship, opinions as to class, &c.)

The above mentioned engines have been built under special survey & on completion were tested in the shop, coupled to the generators, under full & intermediate loads, with satisfactory results. The workmanship & materials were found to be sound & efficient. Enclosed herewith are forging Reports No. 2190.

THIS ENGINE HAS BEEN FITTED IN THE VESSEL THE QUALITY OF WORKMANSHIP & MATERIALS IS GOOD, IT HAS BEEN TESTED UNDER WORKING CONDITIONS, FOUND SATISFACTORY, AND IN THE OPINION OF THE UNDERSIGNED MERITS THE FAVOURABLE CONSIDERATION OF THE COMMITTEE.

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

Fee charged in accordance with agreement with Winton Eng Co Request No. 94

The amount of Fee £	:	:	When applied for,
			19
Travelling Expenses (if any) £	:	none	When received,
			19

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

Committee's Minute NEW YORK JUL 2 - 1930
 Assigned See Report on form 4 to attached