

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. Single on the Twin Screw vessel "LTC No 2." Tons { Gross 548 Net 321
 Built at Gore River, Mass By whom built Lothlehem 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 SCHNEIDER By whom made Gen. Elect. Coy. Contract No. 1437 When made 1930
 No. of Sets 1 Engine Brake Horse Power 15 Nom. Horse Power as per Rule 15 Total Capacity of Generators 15 Kilowatts.

OIL ENGINES, &c.—Type of Engines Winton Diesel 2 or 4 stroke cycle 4 Single or double acting 8
 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 3 1/2" as per Rule 4 1/4" as fitted 4 1/4" Crank pin dia. 4 1/4" Crank Webs 6" Mid. length breadth 2 1/4" Thickness parallel to axis shrunk
 Flywheel Shaft, diameter 3 1/2" as per Rule 4 1/4" as fitted 4 1/4" Intermediate Shafts, diameter 3 1/2" as per Rule 3 1/4" as fitted 3 1/4" Thickness of cylinder liners 3/64"
 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 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. 1 No. of stages 1 Diameters 10" Stroke 10" Driven by Electric
 Scavenging Air Pumps, No. 1 Diameter 10" Stroke 10" Driven by Electric

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
 Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Scrapers
 Is there a drain arrangement fitted at the lowest part of each receiver Yes
 High Pressure Air Receivers, No. 1 Cubic capacity of each 100 Internal diameter 10" thickness 1/2"
 Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 50,000 Working pressure by Rules 100
 Starting Air Receivers, No. 1 Total cubic capacity 100 Internal diameter 10" thickness 1/2"
 Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 50,000 Working pressure by Rules 100

ELECTRIC GENERATORS:—Type Compound, inter-pole
 Pressure of supply 125 volts. Load 120 Amperes. Direct or Alternating Current A.C.
 If alternating current system, state frequency of periods per second 60
 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 12"
 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 (If not, state date of approval) Receivers Yes Separate Tanks Yes
 SPARE GEAR To Rule requirements

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

Dates
of Survey
while
building

During progress of
work in shops - -
During erection on
board vessel - - -
Total No. of visits

1932
Apr. 22, 23. May 1, 2, 5, 6, 7, 8, 9.
MAY 2, 6, 7, JUNE 9, 10, 12.
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

St. Steel

Identification Mark

Lloyds 2190 ED.

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 finding 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.

The amount of Fee ... £

When applied for,

19

Travelling Expenses (if any) £

none

When received,

19

Committee's Minute

NEW YORK JUL 2 - 1930

Assigned

See Report on form 4 to attached

TUE. 18 DEC 1930



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Foundation