

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 460

1 AUG 1929

t. 4c.

Received at London Office  
 Date of writing Report May 6 29 When handed in at Local Office Cleveland 19 29 Port of Cleveland Ohio  
 Date, First Survey Oct 29 1928 Last Survey Apr 10 1929  
 Number of Visits 29

on the Single Triple Quadruple Screw vessel Motor vessel "Fleur delis" Tons { Gross 315.99 Net 92.10  
 Built at Montreal P.Q. By whom built Canadian Vickers Ltd Yard No. 108 When built 1929.7  
 Owners Department of Marine & Fisheries Ottawa, Ont. Port belonging to Ottawa Ont.  
 Engines made at Cleveland By whom made Winton Eng Coy. Contract No. 3159 When made 1929  
 Generators made at Cleveland By whom made Westinghouse Elect Contract No. - When made 1929  
 No. of Sets 2 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 16 Total Capacity of Generators 20.5 Kilowatts.

**ENGINES, &c.** Type of Engines Winton Auxiliary 2 or 4 stroke cycle 4 Single or double acting 0  
 Maximum pressure in cylinders 550 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 Is there a bearing between each crank Yes  
 Revolutions per minute 600 Flywheel dia. 40" Weight 1250 lbs Means of ignition Comp. air Kind of fuel used Fuel oil  
 Crank Shaft, dia. of journals as per Rule 3.48" Crank pin dia. 4 1/4" Crank Webs as fitted Thickness as fitted  
 Flywheel Shaft, diameter as per Rule 3.48" Intermediate Shafts, diameter as fitted Thickness of cylinder liners 1/2"  
 Is there a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Pressure pumps  
 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. 2 1/2 x 3" Ewin Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes  
 Lubricating Oil Pumps, No. and size Rotary 5 Balls per min  
 Air Compressors, No. one No. of stages 3 Diameters 1 5/16, 4 5/16, 5 3/4" Stroke 5 Driven by Engine Crank  
 Sucking Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

**RECEIVERS:**—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes  
 Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces ?  
 Is there a drain arrangement fitted at the lowest part of each receiver Yes  
 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 ✓  
 Working 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 20 Kw. Interpole, marine type  
 Pressure of supply 120 volts. Load 16 2/3 Amperes. Direct or Alternating Current Direct  
 Is the system 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 ✓  
 Is there 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  
 Are approved plans forwarded herewith for Shafting ? Receivers ? Separate Tanks ?  
**DRIVE GEAR** Furnished as required by the Rules.

Working in connection with Main engines.

The foregoing is a correct description,

Manufacturer.



© 2020

Lloyd's Register Foundation

003444-00449-0028

003444-00444-0009

9806

Dates of Survey while building

Feb. 25. Mar 8, 11, 12, 16. 1929

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

June 4, 14, 19, 21, 24, 25. July 5

7

Dates of Examination of principal parts—Cylinders Feb 25 Mar 16 Covers Feb 25 Mar 16 Pistons Feb 25 Mar 16 Piston rods

Connecting rods Feb 25 Mar 16 Crank and Flywheel shaft Feb 25 Mar 16 Intermediate shaft

Crank and Flywheel shaft, Material Steel Identification Mark Lloyd's Intermediate shafts, Material Identification Marks

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

General Remarks (State quality of workmanship, opinions as to class, &c.) The above engines have been built under Special Survey, & on completion were tested coupled to the Generators, under full load in the Shop. The materials & workmanship were found to be sound & efficient.

1m, 7, 20—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minutes.)

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

E Drummond  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute Feb. 6 SEP 1929  
Assigned. See Minute on Hfy R/L 2073  
TUE. 24 SEP 1929 TUE. 29 OCT 1929

