

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 460

AUG 1929

t. 4c.

Date of writing Report May 6 29 When handed in at Local Office

Port of

Received at London Office

o. in Survey held at

Date, First Survey

Oct 29. 1928

Last Survey

Apr 10

1929

g. Book.

Number of Visits

29

on the ~~Triple~~ <sup>Single</sup> 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 &amp; 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

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.

L ENGINES, &amp;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

An 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

Crank Shaft, dia. of journals

as per Rule 3.48"

Crank pin dia.

4 1/4"

Crank Webs

as fitted

shrink

Thickness parallel to axis

per Rule 1.95

as fitted

4 1/4"

as fitted

4 1/4"

as fitted

6"

as fitted

Thickness around cylinder

2 1/4"

Flywheel Shaft, diameter

as per Rule 3.48"

Intermediate Shafts, diameter

as per Rule

as fitted

Thickness of cylinder liners

1/2"

Is 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

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

Lubricating Oil Pumps, No. and size

Rotary 5 Balls per min

Air Compressors, No.

one

No. of stages

3

Diameters

15/16, 4 5/16, 5 3/4"

Stroke

5

Driven by

Engine crank

Savenging 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

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

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

20 Kw. Interpole. Marine type.

Pressure of supply

120.

volts.

Load

16 2/3

Amperes.

Direct or Alternating Current

Direct.

Is an alternating current system, state frequency of periods per second

✓

Is 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 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

(If not, state date of approval)

Receivers

✓

Separate Tanks

✓

SHAFTING

Furnished as required by the Rules.

GEAR

Furnished as required by the Rules.

The foregoing is a correct description,

Manufacturer.



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9806

Dates of Survey while building

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

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

Lloyds

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.

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Fee ... £  
Travelling Expenses (if any) £

When applied for,  
When received,

E. Drummond

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

6 SEP 1929

TUE 24 SEP 1929 TUE 29 OCT 1929

Assigned. See Minute on Hfy Rps 2073



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