

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 391

Date of writing Report

19

When handed in at Local Office

19

Port of

Received at London Office

11 DEC 1927

No. in Survey held at
Reg. Book.

Mount Vernon, Ohio

Date, First Survey

May 17-26

Last Survey

June 17 1927

Number of Visits

3

44302

Single
Twin
Triple
Quadruple

Screw vessel

"J. A. MOFFETT JR"

Tons

Gross 9565
Net 5948

Built at

Nearby m.

By whom built

Federal Shipyard

Yard No. 50

When built

1921-8

Owners

Standard Shipping Co.

Port belonging to

Wilmington Del.

Oil Engines made at

Mount Vernon

By whom made

B. G. Cooper Co.

Contract No.

When made

1927

Generators made at

East Pittsburgh

By whom made

Westinghouse 67m Co

Contract No.

When made

No. of Sets 3

Engine Brake Horse Power

150

Nom. Horse Power as per Rule

Total Capacity of Generators

200 Kilowatts.

OIL ENGINES, &c.

Type of Engines

MAN Diesel auxiliary

2 or 4 stroke cycle

Single or double acting

5

Maximum pressure in cylinders

625#

Diameter of cylinders

12"

Length of stroke

18

No. of cylinders

3

No. of cranks

3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge

16"

Is there a bearing between each crank

yes

Revolutions per minute

260

Flywheel dia.

6'-3"

Weight

8400#

Means of ignition

Solid

Kind of fuel used

Diesel

Crank Shaft, dia. of journals

as per Rule 6.70 (500#)

Crank pin dia.

4 1/2"

Crank Webs

Mid. length breadth 10 1/2"

Thickness parallel to axis

Flywheel Shaft, diameter

as per Rule 4 1/2"

Intermediate Shafts, diameter

as per Rule

Thickness of cylinder liners

Is a governor or other arrangement fitted to prevent racing of the engine when declutched

yes

Means of lubrication

Forced

Are the cylinders fitted with safety valves

yes

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

cooled

Cooling Water Pumps, No.

1- Direct Conn.

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

✓

Lubricating Oil Pumps, No. and size

1- Direct Connected 4 Balls per hour

Air Compressors, No.

2

No. of stages

3

Diameters

80. 340. 380

Stroke

250

Driven by

Direct coupled

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

Westinghouse D.C. Commutating - Pole

Pressure of supply

240 volts

Load

425

Amperes

Direct or Alternating Current

Direct

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

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched

Are the lubricating arrangements of the generators as per Rule

Forwarded with Rpt 391 on main logs.

PLANS. Are approved plans forwarded herewith for Shafting

July 1927

Receivers

Separate Tanks

SPARE GEAR

Furnished as required by the Rules.

The foregoing is a correct description,

The C & C Co - Rep. & Secy

Manufacturer.



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Lloyd's Register
Foundation

W181-0152

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - - }
Total No. of visits

May 18. June 17. July 19.

3.

Dates of Examination of principal parts—Cylinders

June 17.
July 19.

Covers

June 14
July 19

Pistons

June 17
July 19

Piston rods

Connecting rods

June 17
July 19

Crank and Flywheel shaft

June 14
July 19

Intermediate shaft

Crank and Flywheel shaft, Material

Steel

Identification Mark

LLOYDS
N.J.F.

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
& in accordance with the approved plans.

The amount of Fee ...

\$167.50

When applied for,

July 19. 27

Travelling Expenses (if any)

\$44.50

When received,

Sept 19. 27

Committee's Minute

Assigned

See Clv. Rpt 391
+ N.Y.K. Rpt 28452.

E. Drummond

Surveyor to Lloyd's Register of Shipping.



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