

REPORT ON OIL ENGINE MACHINERY

No. 391

21 JAN 1928

Received at London Office

Writing Report

When handed in at Local Office

19

Port of

Cleveland, Ohio

Survey held at

Hamilton Ohio

Date, First Survey

Aug 24-25

Last Survey

June 23 1927

Number of Visits

8

ok.

on the ☒ Single ☐ Twin ☐ Triple Screw vessels

"J. A. MOFFETT JR."

Tons { Gross 9565 Net 5948

Built at

Hamilton, Ohio

By whom built

Hovven Owen, Kenton, Ohio

Yard No.

5401

When built

1927-6

Boilers made at

Hamilton, Ohio

By whom made

Hovven Owen, Kenton, Ohio

Boiler No.

When made

1927-6

Horse Power

3300 Total

Owners

Standard Oil Co.

Port belonging to

New Jersey

Horse Power as per Rule

1053 Total

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

GINES, &c.—Type of Engines

Diesel Port & Starb.

2 or 4 stroke cycle

Single or double acting

Pressure in cylinders

500

No. of cylinders

4 each

No. of cranks

4 each

Diameter of cylinders

24 1/2"

Stroke

47 1/4"

Revolutions per minute

90

Means of ignition

Compression

Kind of fuel used

Diesel oil

Spacing between each crank

Yes

Span of bearings (Page 92, Section 2, par. 7 of Rules)

40 5/8"

Between centres of main bearings

4'-11"

Is a flywheel fitted

Yes

Diameter of crank shaft journals

as per Rule 17.32"

Crank pins

17 3/4"

Breadth of crank webs

as per Rule 4.58"

as fitted 7 1/16"

Thickness of ditto

as per Rule 10.82"

Flywheel shaft

as per Rule 17.32"

as fitted 17 3/4"

Diameter of tunnel shaft

as per Rule

Diameter of thrust shaft

as per Rule

as fitted 14 3/8"

Screw shaft

as per Rule

as fitted

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

End of the liner made watertight in the propeller boss

If the liner is in more than one length are the joints burned

Does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Is the shaft lapped or protected between the liners

If without liners, is the shaft arranged to run in oil

Is the gland fitted to stern tube

Length of stern bush

Diameter of propeller

Propeller

No. of blades

state whether moveable

Total surface

square feet

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

Yes

Thickness of cylinder liners

2"

Cylinders fitted with safety valves

Yes

Means of lubrication

Forced feed

Are the exhaust pipes and silencers water cooled or lagged with

Lagging material

If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

No. of cooling water pumps

2 each 450 Gals. P.M.

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

Vessel

No. of bilge pumps fitted to the main engines

Diameter of ditto

Stroke

Overhauled while the other is at work

No. of auxiliary pumps connected to the main bilge lines

How driven

Pumps

No. and sizes of suction connected to both main bilge pumps and auxiliary bilge pumps:—In engine room

Pipes, etc.

No. of ballast pumps

How driven

Sizes of pumps

First pump fitted with a direct suction from the engine room bilges

State size

Is a separate auxiliary pump suction fitted in

Room and size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine Room always accessible

Access on Engine Room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship

Valves or cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates

Discharge pipes above or below the deep water line

Are they each fitted with a discharge valve always accessible on the plating of the vessel

Pipes, cocks, valves and pumps in connection with the machinery accessible at all times

Are the bilge suction pipes, cocks and valves arranged so as to prevent any

Communication between the sea and the bilges

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

Main air compressors

1 each

No. of stages

3

Diameters

4 1/2", 29 1/2", 30 1/2"

Stroke

23 1/2"

Driven by

Main engine

Auxiliary air compressors

2

No. of stages

3

Diameters

80-340-380

Stroke

250

Driven by

Aux. engines

Small auxiliary air compressors

No. of stages

3

Diameters

45"

Stroke

55"

Driven by

Main engine

Serving air pumps

1 each

Diameter

45"

Stroke

55"

Driven by

Main engine

Booster 60. Engines 8000-1-2

as per Rule

6.4" at 500

of auxiliary Diesel Engine crank shafts

as fitted

4 1/2"

Are the air compressors and their coolers made so as to be easy of access

Yes

RECEIVERS:—No. of high pressure air receivers

Internal diameter

Cubic capacity of each

Seamless, lap welded or riveted longitudinal joint

Range of tensile strength

Working pressure by Rules

No. of starting air receivers

Internal diameter

Cubic capacity

Material

Seamless, lap welded or riveted longitudinal joint

Tensile strength

thickness

Working pressure by rules

Is each receiver, which can be isolated,

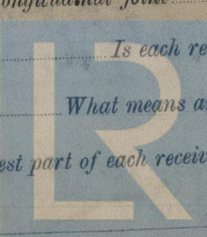
Is a safety valve as per Rule

Can the internal surfaces of the receivers be examined

What means are provided for cleaning their

Faces

Is there a drain arrangement fitted at the lowest part of each receiver



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