

## REPORT ON OIL ENGINE MACHINERY.

No. 1198

10 MAR 1947

Received at London Office

Writing Report Jan. 30th, 1947 When handed in at Local Office

Port of Cleveland, Ohio.

Survey held at Milwaukee, Wis.

Date, First Survey Dec. 3rd

Last Survey Dec. 3rd, 1946.

Number of Visits 1

3/8"

Single  
on the Twin  
Triple  
QuadrupleTons { Gross -  
Net -

By whom built -

Yard No. -

When built -

s made at Milwaukee, Wis.

By whom made Nordberg Mfg. Co.

Engine No. 10-044-045-

When made 1946

Boilers made at -

By whom made -

Boiler No. -

When made -

Horse Power 8

Owners Clayton Construction Co.,  
St. Johns, Newfoundland.

Port belonging to -

Horse Power as per Rule -

Is Refrigerating Machinery fitted for cargo purposes -

Is Electric Light fitted -

for which Vessel is intended -

ENGINES, &amp;c.—Type of Engines (3) Lister-Blackstone Diesel 2 or 4 stroke cycle 4 ✓ Single or double acting S ✓

um pressure in cylinders 750 lbs. ✓

Auxiliary.

Indicated Pressure 80 lbs. ✓

Diameter of cylinders 4-1/2" ✓

Length of stroke 4-3/8" ✓

No. of cylinders 1 ✓

No. of cranks 1 ✓

bearings, adjacent to the Crank, measured from inner edge to inner edge 4.867" ✓

Is there a bearing between each crank Yes

ions per minute 1200 ✓

Flywheel dia. 23" ✓

Weight -

Means of ignition Solid

Inj.

Kind of fuel used Heavy Oil

(Solid forged

as per Rule -

Mid length breadth 3-1/2" ✓

Thickness parallel to axis -

t, ~~Solid built~~

as fitted 2.373" ✓

Crank pin dia. 2.748" ✓

Crank Webs

Mid length thickness 1-1/4" ✓

Thickness around eyehole -

eel Shaft, diameter

as per Rule -

Intermediate Shafts, diameter

as per Rule -

Thrust Shaft, diameter at collars

as per Rule -

Shaft, diameter

as fitted -

Screw Shaft, diameter

as fitted -

Is the {tube}

screw} shaft fitted with a continuous liner {

-

e Liners, thickness in way of bushes

as per Rule -

Thickness between bushes

as per Rule -

Is the after end of the liner made watertight in the

er boss -

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner -

10/

Liner 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 -

liners are fitted, is the shaft lapped or protected between the liners -

Is an approved Oil Gland or other appliance fitted at the after end of the tube

If so, state type -

Length of Bearing in Stern Bush next to and supporting propeller -

ller, dia. -

Pitch -

No. of blades -

Material -

whether Moveable -

Total Developed Surface -

sq. feet

d of reversing Engines -

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

Means of lubrication

Thickness of cylinder liners 1/4" ✓

Are the cylinders fitted with safety valves No

Are the exhaust pipes and silencers water cooled or lagged with

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

g Water Pumps, No. -

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

Pumps worked from the Main Engines, No. -

Diameter -

Stroke -

Can one be overhauled while the other is at work

s connected to the Main Bilge Line

{No. and Size

{How driven

cooling water led to the bilges

If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

ements

st Pumps, No. and size

Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size

o independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

, No. and size:—In Machinery Spaces

In Pump Room

lds, &amp;c.

pendent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

ke tel the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes

Are the Bilge Suctions in the Machinery Spaces

e matom easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

l Sea Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

ey fixed sufficiently high on the ship's side to be seen without lifting the platform plates

Are the Overboard Discharges above or below the deep water line

ey each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

pipes pass through the bunkers

How are they protected

pipes pass through the deep tanks

Have they been tested as per Rule

lacesl Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

buil arrangement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from

achedmpartment to another

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

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

Air Compressors, No. -

No. of Stages

Diameters

Stroke

Driven by

iary Air Compressors, No. -

No. of stages

Diameters

Stroke

Driven by

l Auxiliary Air Compressors, No. -

No. of stages

Diameters

Stroke

Driven by

f Shipp provision is made for first Charging the Air Receivers

nging Air Pumps, No. -

Diameter

Stroke

Driven by

as per Rule

No.

liary Engines crank shafts, diameter

as fitted

Position

the Auxiliary Engines been constructed under special survey

Is a report sent herewith

003075-003082-0015

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**AIR RECEIVERS:**—Have they been made under survey.

State No. of Report or Certificate.

Is each receiver, which can be isolated, fitted with a safety valve as per Rule.

Can the internal surfaces of the receivers be examined and cleaned.

Is a drain fitted at the lowest part of each receiver.

Injection 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.

Actual.

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.

Actual.

**IS A DONKEY BOILER FITTED?**

If so, is a report now forwarded?

Is the donkey boiler intended to be used for domestic purposes only.

PLANS. Are approved plans forwarded herewith for Shafting.

(If not, state date of approval)

Receivers

Separate Fuel Tanks

Donkey Boilers

General Pumping Arrangements

Pumping Arrangements in Machinery Space

Oil Fuel Burning Arrangements

**SPARE GEAR.**

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

The foregoing is a correct description

Manufacturer.

Dates of Survey

(During progress of work in shops - -)

(During erection on - -)

(Total No. of visits - -)

Dates of Examination of principal parts—Cylinders 12/3/46

Covers 12/3/46

Pistons 12/3/46

Rods -

Connecting rods 12/3

Crank shaft 12/3/46

Flywheel shaft -

Thrust shaft -

Intermediate shafts -

Tube shaft -

Screw shaft -

Propeller -

Stern tube -

Engine seatings -

Engines holding down bolts -

Completion of fitting up connections -

Completion of pumping arrangements -

Engines tried under working conditions -

Drop forged

Identification Mark 23-2502

Flywheel shaft, Material -

Identification Mark -

Crank shaft, Material -

Identification Mark -

Intermediate shafts, Material -

Identification Marks -

Tube shaft, Material -

Identification Mark -

Screw shaft, Material -

Identification Mark -

Identification Marks on Air Receivers -

Is the flash point of the oil to be used over 150° F.

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo

If so, have the requirements of the Rules been complied with

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with

Is this machinery duplicate of a previous case

If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.

The above mentioned engines comply with the

Society's Rules and the manufacturer's approved plans. Brake horse power tests were witnessed

the engines operating under full and intermediate loads and the water jackets were tested to 60

hydrostatic pressure per square inch. On completion of tests the engines were opened up and ins

ed. The materials and workmanship were found free from visible defects and the test results wer

satisfactory.

Lister-Blackstone Inc., engines are built by the Nordberg Mfg. Co., on a mass-production line an

the crank shafts and connecting rods are purchased in quantities. Affidavits of test results of

crank shaft and connecting rod material is attached hereto. The brinell hardness of the forging

used in the engines now inspected was checked and found satisfactory.

The amount of Entry Fee ... £ \$ 75.00

Special

£

:

When applied for,

1/6/ 1947

Donkey Boiler Fee

£

:

When received,

1/27/ 1947

Travelling Expenses (if any) £ \$ 34.50

Committee's Minute

NEW YORK FEB 11 1947

Assigned

Transmit to London

J. P. Greenwood

Engineer Surveyor to Lloyd's Register of Shipping



Lloyd's Register Foundation