

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

30 JAN 1929

Date of writing Report

19

When handed in at Local Office

18 11 29 Port of Glasgow

No. in Survey held at
Reg. Book.

Date, First Survey

28 5 28

Last Survey

17-1-

1929

on the

new steel S/S "VACUOLINE"

(Number of Visits)

77

Gross 8670

Net 5223

Tons

When built 1929

Built at Port Glasgow

By whom built

Lithgows Ltd

Yard No. 820

Engines made at

Glasgow

By whom made

David Rowan & Co Ltd

Engine No. 889

when made 1929

Boilers made at

Glasgow

By whom made

David Rowan & Co Ltd

Boiler No. 889

when made 1929

Registered Horse Power

Owners

Vacuum Oil Co Ltd

Port belonging to

London

Nom. Horse Power as per Rule

630

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

Trade for which Vessel is intended

carrying oil in bulk

ENGINES, &c.—Description of Engines

Quadruple expansion (balanced)

Revs. per minute 75

Dia. of Cylinders 24 3/4" 35 3/4" 51" 73"

Length of Stroke 51"

No. of Cylinders 4

No. of Cranks 4

Crank shaft, dia. of journals as per Rule 14 6/8"

as fitted 15"

Crank pin dia. 15 1/2"

Crank webs

Mid. length breadth 22"

shrunk

Thickness parallel to axis 9 7/8"

Intermediate Shafts, diameter as per Rule 13 9/5"

as fitted 14 2/5"

Thrust shaft, diameter at collars as per Rule 14 6/4 7/5"

as fitted 15 1/2"

Tube Shafts, diameter as per Rule 15 1/2"

as fitted 16 1/8"

Screw Shaft, diameter as per Rule 15 5/32"

as fitted 16 1/8"

Is the

screw

shaft fitted with a continuous liner

yes

Bronze Liners, thickness in way of bushes as per Rule 7 7/4 3/8"

as fitted 13"

Thickness between bushes as per Rule 6 1/8"

as fitted 3 1/4"

Is the after end of the liner made watertight in the

propeller boss

yes

If the 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

yes

If two 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 shaft

no

Length of Bearing in Stern Bush next to and supporting propeller

5'-10" ✓

Propeller, dia. 18'-6"

Pitch 18'-0"

No. of Blades 4

Material Bronze

whether Moveable

yes

Total Developed Surface 114 sq. feet

Feed Pumps worked from the Main Engines, No. none

Diameter

Stroke

Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. 2

Diameter 4 1/2"

Stroke 27"

Can one be overhauled while the other is at work

yes

Feed Pumps { No. and size 2 @ 9 1/2 x 24"

How driven

steam

Pumps connected to the

Main Bilge Line

No. and size

General service - 8 1/2 x 10 x 10"

Ballast Pumps, No. and size in pump room

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

No. and size

How driven

steam

Are two independent means arranged for circulating water through the Oil Cooler

yes

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps; In Engine and Boiler Room 4 @ 3" and one @ 5"

In Holds, &c. Tanker

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 11"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size 1 @ 5 1/2"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

yes

Are all Sea Connections fitted direct on the skin of the ship

yes

Are they fitted with Valves or Cocks

both

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

yes

Are the Overboard Discharges above or below the deep water line

above

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

yes

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

yes

What Pipes pass through the bunkers

How are they protected

What pipes pass through the deep tanks

Have they been tested as per Rule

yes

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

yes

Is the 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 one

compartment to another

yes

Is the Shaft Tunnel watertight

mch. apt.

Is it fitted with a watertight door

worked from

MAIN BOILERS, &c.—(Letter for record (S))

Total Heating Surface of Boilers

9276 sq. ft.

Is Forced Draft fitted

yes

No. and Description of Boilers

three single ended 358

Working Pressure 230 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

yes

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting

no

Main Boilers

yes

Auxiliary Boilers

yes

Donkey Boilers

yes

Superheaters

General Pumping Arrangements

with ship's report

Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—

In accordance with the Rules and in addition, —

one 1/2 crankshaft, one propeller shaft, one piston rod and nuts, one thrust shoe, one eccentric sheave and strap and four bronze propeller blades.

The foregoing is a correct description,

DAVID ROWAN & CO. LIMITED

Manufacturer.

Allan Stevenson

Lloyd's Register
Foundation

003534-003540-0136

003534-003540-0137

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

NOTE.—The words which do not apply should be deleted.

Im 127. T.

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