

# REPORT ON OIL ENGINE MACHINERY.

No. 1343.

Tanks 5.8.30.

nts 20.7

Report 19th March 31

When handed in at Local Office 21st March 31 Port of Bremen

Received at London Office

Survey held at Augsburg

Date, First Survey 21st March 1930 Last Survey 7th March 1931

Number of Visits 94

Single  
Twin  
Triple  
Quadruple  
Screw vessel

CABO SANTO TOMÉ

Tons  
Gross  
Net

at Augsburg

By whom built Soc. Española de const. naval

Yard No. 39 When built 1920/21

By whom made Munch. Fabrik Augsburg-Kunzberg A. G.

Engine No. 550 When made 1920/21

By whom made

Boiler No. When made

Power 2 x 4600

Owners Muench. J. Barra & Co

Port belonging to Seville

Power as per Rule 2760

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Which vessel is intended

Types, &c.—Type of Engines 2 x D7 2 60/90

2 or 4 stroke cycle 2 Single or double acting double

Ports in cylinders 45 at 2 Diameter of cylinders 600 2

Length of stroke 900 2 No. of cylinders 2 x 7 No. of cranks 2 x 7

Ports, adjacent to the Crank, measured from inner edge to inner edge 885 2

Is there a bearing between each crank yes

minute 133 Flywheel dia. 2100 2

Weight 3120 kg

Means of ignition Diesel principle

Kind of fuel used

dia. of journals as per Rule

as fitted 420 2

Crank pin dia. 420 2

Crank Webs

Mid. length breadth 580 2

Thickness parallel to axis

St. diameter as per Rule

as fitted 420 2

Intermediate Shafts, diameter

as per Rule

Thrust Shaft, diameter at collars

as per Rule

diameter as per Rule

as fitted

Screw Shaft, diameter

as per Rule

Is the tube screw shaft fitted with a continuous liner

Thickness in way of bushes as per Rule

as fitted

Thickness between bushes as per rule

as fitted

Is the after end of the liner made watertight in the

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

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

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

Pitch

No. of blades

Material

whether Moveable

Total Developed Surface

sq. feet

Driving Engines direct, comp. air Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes

Means of lubrication

Thickness of cylinder liners 42, 5 2

Are the cylinders fitted with safety valves yes

Are the exhaust pipes and silencers water cooled or lagged with

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

Pumps, No. 3 x 270 3/4 seawater indep. rotary

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

Worked from the Main Engines, No. 4

Diameter

Stroke

Can one be overhauled while the other is at work

to the Main Bilge Line No. and Size

How driven

No. and size

Lubricating Oil Pumps, including Spare Pump, No. and size 3 x 45 3/4 indep. rotary

It means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

to:—In Machinery Spaces

In Pump Room

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

Suction pipes in Holds and Tunnel Well fitted with strum-boxes

Are the Bilge Suctions in the Machinery Spaces

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

Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

efficiently 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

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

through the bunkers

How are they protected

through the deep tanks

Have they been tested as per Rule

locks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

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

another

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

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

Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Compressors, No. 2 x 215 3/4

No. of stages 3

Diameters 350/295/100 2

Stroke 220 2

Driven by aux. engines

Air Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Pumps, No. 2 x tandem

Diameter 1380 2

Stroke 820 2

Driven by main engines

Lines crank shafts, diameter

as per Rule

as fitted 170 2

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes

surfaces of the receivers be examined and cleaned yes

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

Are Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

Receivers, No. 1 for main engines

Total cubic capacity 400 2

Internal diameter 1800 2

Actual 31 2

1 for auxiliary

Material S. M. Steel

Range of tensile strength 44-50, 41-47

Working pressure by Rules

welded or riveted longitudinal joint

Material

Range of tensile strength 44-50, 41-47

Working pressure by Rules

1 for auxiliary

Material

Range of tensile strength 44-50, 41-47

Working pressure by Rules

welded or riveted longitudinal joint

Material

Range of tensile strength 44-50, 41-47

Working pressure by Rules

1 for auxiliary

Material

Range of tensile strength 44-50, 41-47

Working pressure by Rules

welded or riveted longitudinal joint

Material

Range of tensile strength 44-50, 41-47

Working pressure by Rules

1 for auxiliary

Material

Range of tensile strength 44-50, 41-47

Working pressure by Rules

WS13-0046

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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

Receivers

Separate Tanks

Donkey Boilers

General Pumping Arrangements

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,  
Maschinenfabrik Augsburg-Nürnberg A.-G.

Manufacturer.

Dates  
of Survey  
while  
building

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

2. March; 2 April; 13. 14. 22. 31 May; 7. 16. 26 June; 8. 10. 22. July; 6. 18. 23. August; 6. 8. 7. 13. 16. 17. 20. 27. 30 Sept; 4. 6. 25. 27. 28. 29. 30 Oct; 8. 10. 11. 19. 20. 22. 28. 29 Nov; 1. 2. 3. 8. 9. 10. 16. 17. 18. 23. 24. 27. 29. 30. 31. Dec 1930; 2. 3. 5. 6. 14. 30. 31. Jan; 2. 3. 4. 5. 9. 10. 16. 17. 18. 19. 23. 24. 26. 26. 27. 28 Feb; 9. 10. 16. 17. March 1931

Dates of Examination of principal parts—Cylinders

Crank shafts

Screw shaft

Completion of fitting sea connections

Crank shafts Material

Thrust shaft, Material

Tube shaft, Material

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 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

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

In my opinion the vessel for which these engines are intended will be eligible for the notation

A copy of this report has been sent to the Bilbao Surveyors

The amount of Entry Fee

Special

Donkey Boiler Fee

Travelling Expenses (if any)

Committee's Minute

Assigned

When applied for,

30. 3. 1931

When received,

2. 6. 1931

FRI. 22 JAN 1932

See F. E. Rpt.

Engineer Surveyor to Lloyd's Register of



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