

REPORT ON OIL ENGINE MACHINERY.

No. 1372

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of writing Report Aug. 23 1949 When handed in at Local Office 1949 Port of Cleveland, Ohio

in Survey held at Milwaukee, Wisconsin Date, First Survey May 19 Last Survey July 7 1949

Book. M.S. BAHIA THETIS

Single } Screw vessel Argentine Vessel - Main Propulsion Engines
on the Twin }
Triple }
Quadruple }

at Halifax, N.S. By whom built Halifax Shipyards Ltd. Yard No. 18 When built -
ines made at Milwaukee, Wis. By whom made Nordberg Mfg. Co. TSM-2155 When made 1949
key Boilers made at - By whom made - TSM-2156
e Horse Power 1875 each Owners Argentine Government Boiler No. - When made -
n. Horse Power as per Rule 838 Is Refrigerating Machinery fitted for cargo purposes - Is Electric Light fitted -
de for which Vessel is intended -

L ENGINES, &c. Type of Engines Trunk piston, solid injection 2 or 4 stroke cycle 2 Single or double acting Single
imum pressure in cylinders 800 psi positive scavenge
Indicated Pressure 88 psi Diameter of cylinders 21.5" Length of stroke 29" No. of cylinders 5 No. of cranks 5 + 1 scav.
of bearings, adjacent to the Crank, measured from inner edge to inner edge 26.25" Is there a bearing between each crank yes
olutions per minute 225 Flywheel dia 76" Weight 97000 lbs Means of ignition Compression Kind of fuel used Diesel
ak { Solid forged as per Rule -
aft, { Semi built dia. of journals as fitted 14.75" Crank pin dia 14.75" Crank Webs Mid length breadth 19.125" Thickness parallel to axis -
All built as fitted 14.75" Mid length thickness 8.875" Thickness around eyehole -
wheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - Thrust Shaft, diameter at collars as per Rule -
as fitted - as fitted - as fitted 9.625"
e Shaft, diameter as per Rule - as fitted - Is the { tube } shaft fitted with a continuous liner {
as fitted - as fitted - screw }
nize 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
as fitted - as fitted - bell boss -
e 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 -
o 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 -
peller, dia. - Pitch Rotating No. of blades - Material - whether Moveable - Total Developed Surface - sq. feet
hod of reversing Engines Camshaft Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication
ssure Thickness of cylinder liners 875" Min Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with
conducting material - If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine -
ling Water Pumps, No. - Is the sea suction provided with an efficient strainer which can be cleared within the vessel -
e Pumps worked from the Main Engines, No. - Diameter - Stroke - Can one be overhauled while the other is at work -
aps connected to the Main Bilge Line { No. and Size -
How driven -
e 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
gements -
ast Pumps, No. and size - Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size -
two independent means arranged for circulating water through the Oil Cooler - Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
ps, No. and size:—In Machinery Spaces - In Pump Room -
olds, &c. -
ependent Power Pump Direct Suctions to the Engine Room Bilges, No. and size -
all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes - Are the Bilge Suctions in the Machinery Spaces
rom easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges -
all Sea Connections fitted direct on the skin of the ship - Are they fitted with Valves or Cocks -
they 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 -
they 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 -
t pipes pass through the bunkers - How are they protected -
t pipes pass through the deep tanks - Have they been tested as per Rule -
all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times -
e 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
compartment to another - Is the Shaft Tunnel watertight - Is it fitted with a watertight door - worked from -
wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork -
n Air Compressors, No. - No. of Stages - Diameters - Stroke - Driven by -
iliary Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
ll Auxiliary Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
t provision is made for first Charging the Air Receivers -
enging Air Pumps, No. (1) double acting Diameter 53.5" Stroke 16.5" Driven by Main engine
iliary Engines crank shafts, diameter as per Rule - No. - Position -
as fitted - Is a report sent herewith -
the Auxiliary Engines been constructed under special survey -

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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

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

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 Clv. Rpt. 1308

(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 To Rule Requirements

State the principal additional spare gear supplied See attached list Clv. Rpt. 1308

TORSIDGRAPH RECORDS REQUIRED

The foregoing is a correct description

Manufacturer.

Dates of Survey while building

During progress of work in shops - - -
During erection on board vessel - - -

May 19, 25 June 1, 7, 22, 25, 28, July 7, 1949

Total No. of visits

8

Dates of Examination of principal parts—Cylinders

19.5.49

Covers

19.5.49

Pistons

25.5.49

Rods

Connecting rods

19.5.49

Crank shaft

19.5.49

Flywheel shaft

Thrust shaft

19.5.49

Intermediate shafts

Tube shaft

Screw shaft

Propeller

Stern tube

Engine seatings

Engines holding down bolts

Completion of fitting sea connections

Completion of pumping arrangements

Engines tried under working conditions

Crank shaft, Material OH Steel For

Identification Mark

Lloyds 5867

Flywheel shaft, Material

Identification Mark

Thrust shaft, Material OH Steel For

Identification Mark

Lloyds 5881

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. Yes

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 Yes If so, state name of vessel Halifax Hulls Nos. 16, 17

General Remarks (State quality of workmanship, opinions as to class, &c. These main propulsion engines and thrust b

were constructed under Special Survey and to approved plans in accordance with the Rules of this

Society. The materials were tested by the Society's Surveyors and the workmanship found good.

two engines were, on completion, shipped partly dismantled to the Halifax Shipyards Ltd., Halifax

N.S., for installation aboard a vessel building there to the classification requirements of this

Society. It is recommended that the vessel be assigned the record of + L.M.C. (with date) when

these main engines have been installed on board and tested under working conditions, all to the

satisfaction of the Society's Surveyors.

The amount of Entry Fee ... £ 1,143.00 :

Special ... £ :

Donkey Boiler Fee ... £ :

Travelling Expenses (if any) £ 280.00 :

When applied for,

Nov. 7 1949

When received,

NEW YORK

NOV 16 1949

SEP 29 1949

R. F. Haagenesen

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned Transmit to London

See hints on J.B. Rpt.

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