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REPORT ON OIL ENGINE MACHINERY.

No. 8158

Received at London Office

10 MAY 1945

of writing Report 13th Apr. 1945 When handed in at Local Office 15th Apr. 1945 Port of Baltimore, Maryland
Date, First Survey Sept. 1944 Last Survey January 17, 1945
Number of Visits 14

Single
Triple
Screw vessel "LAVORO"
Tons Gross 7886
Net 4453
It at Trieste By whom built Cantiere Riuniti Dell' Adriatico Yard No. 1212 When built 1938
By whom made Soc. An "FIAT" S.G.M. Engine No. When made 1938
Boilers made at Trieste By whom made Cantiere Riuniti Del' Adriatico Boiler No. 1212 When made 1938
Owners A. Lauro Port belonging to Naples
Horse Power
Horse Power as per Rule 929.6 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
for which vessel is intended Carrying Petroleum in bulk

ENGINES, &c. Type of Engines Heavy Oil 2 1/2 stroke cycle 2 Single or double acting S
pressure in cylinders 950 lbs. Diameter of cylinders 26.75 Length of stroke 43.3125 No. of cylinders 8 No. of cranks 8
bearings, adjacent to the Crank, measured from inner edge to inner edge 35.568" Is there a bearing between each crank Yes
as per minute 125 Flywheel dia. - Weight - Means of ignition Compression Kind of fuel used Heavy oil
shaft, dia. of journals as per Rule 17.675 Crank pin dia. 17.655" Crank Webs Mid. length breadth 24.93" Thickness parallel to axis
as fitted 17.675 Mid. length thickness 11.417" shrunken Thickness around eyehole
Shaft, diameter as per Rule 17.75 Intermediate Shafts, diameter as per Rule 14.566 Thrust Shaft, diameter at collars as per Rule 47.637
as fitted 17.75 as fitted 14.566 as fitted 47.637
Shaft, diameter as per Rule - Screw Shaft, diameter as per Rule 16.023 Is the shaft fitted with a continuous liner Yes
as fitted - as fitted 16.023

Liners, thickness in way of bushes as per Rule .7875 Thickness between bushes as per Rule .59 Is the after end of the liner made watertight in the
as fitted .7875 as fitted .59
If the liner is in more than one length are the junctions made by fusion through the whole thickness of 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 -
ers 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 5'10"

r, dia. 15'6" Pitch 11'4" No. of blades 4 Material Bronze whether Moveable No Total Developed Surface 72.53 sq. feet
of reversing Engines Comp. Air Is a governor or other arrangement fitted to prevent racing of the engine when declutched - Means of lubrication
Thickness of cylinder liners 1.5" Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers lagged with
ting material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine -
Water Pumps, No. One One attached and one steam duplex F. W. jacket cooling Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
duplex S.W. cooling

ial arrangements are made for dealing with cooling water if discharged into bilges
umps worked from the Main Engines, No. One Diameter 6" Stroke 3" Can one be overhauled while the other is at work -
connected to the Main Bilge Line No. and Size Two 7.95 x 10" stroke How driven Steam
umps, No. and size One 7.95 x 10" stroke Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size One attached rotary &
two independent 9.69 x 12"
dependent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
one 3"
o. and size:—In Machinery Spaces Six one - 3", one 8", two 5", two 2 1/2" In Pump Room one 3"

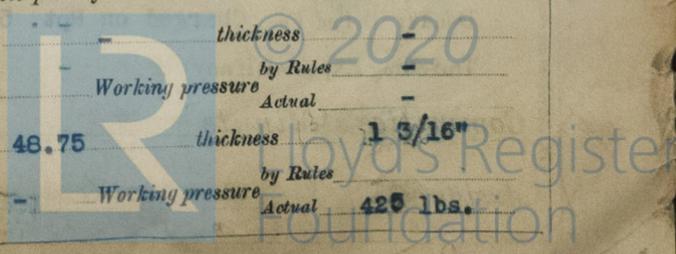
ent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 4 (2 - 5" and 2 - 2 1/2")
e Bilge suction pipes Tunnel Well fitted with strum-boxes Yes Are the Bilge Suctions in the Machinery Spaces
asily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes
a Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Yes
ced sufficiently high on the ship's side to be seen without lifting the platform plates Yes Are the Overboard Discharges above or below the deep water line No
ch 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

pass through the bunkers None How are they protected -
pass through the deep tanks None Have they been tested as per Rule -
pes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
ngement 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
at to another Yes Is the Shaft Tunnel watertight - Is it fitted with a watertight door - worked from -
vessel, 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 -
Air Compressors, No. Two No. of stages Two Diameters 11.25 & 4.7 Stroke 9.875 Driven by Steam Recip. Eng.
Auxiliary Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
ing Air Pumps, No. One Diameter 53.875 Stroke 29.625 Driven by attached
y Engines crank shafts, diameter as per Rule 4.301 No. One Position Starboard side eng. room, aft.

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
Internal surfaces of the receivers be examined and cleaned Yes Is a drain fitted at the lowest part of each receiver Yes
Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
Working pressure by Rules -
Actual -
Working Air Receivers, No. 3 Total cubic capacity 660 cu. ft. Internal diameter 48.75 thickness 1 3/16"
Working pressure by Rules -
Actual 420 lbs.

less, lap welded or riveted longitudinal joint Rivetted Material Steel Range of tensile strength - Working pressure Actual 420 lbs.



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IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes Rpt. 5a.

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

PLANS. Are plans forwarded herewith for Shafting Yes Receivers No Separate Tanks No

Donkey Boilers Yes General Pumping Arrangements Yes Oil Fuel Burning Arrangements No

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied One main oil engine piston and rod One cylinder head assembly. Two complete air starting valves. One spare screw shaft with liner.

Copies of the following plans found on board the vessel are forwarded herewith:-

Engine Room Plan Plans now prepared and forwarded herewith:- Engine Room Transverse section (2) Main oil engine crank, thrust, intermediate and tail shafts. Pump Room No. 1 Propeller. Steam driven air compressor Donkey Boilers Stern tube.

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building During progress of work in shops - - During erection on board vessel - - Total No. of visits

Dates of Examination of principal parts - Cylinders Covers Pistons - Rods Connecting rods Crank shaft Flywheel shaft Thrust shaft 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 Identification Mark Flywheel shaft, Material Identification Mark Thrust shaft, Material Identification Mark Intermediate shafts, Material Identification Marks Tube shaft, Material Identification Mark Screw shaft, Material Identification Mark

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 machinery of this vessel so far as now seen

appears to be of good material and good workmanship. The main and auxiliary machinery has been examined under full load working conditions and in my opinion is in good and safe working condition and eligible to be classed with this Society with a record of Examined 1,45.

The amount of Entry Fee .. £ 30.00 When applied for, Apr. 13, 1945 Special ... £ 390.00 Doukey Boiler Fee Charged on Rpt. 5a Travelling Expenses (if any) £

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK APR 13 1945

Assigned Class contemplated



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