

REPORT ON OIL ENGINE MACHINERY.

No. 5111

29 MAR 1954

Received at London Office

Date of writing Report 9 - 3 - 1954 When handed in at Local Office 19 Port of NAPLES.
o. in Survey held at Taranto. Date, First Survey 30 - 4 - 53 Last Survey 5 - 3 - 1954
eg. Book. Number of Visits 18

Single
Screw vessel Motor Tanker "AGOSTINO FASSIO".
Tons Gross
Net
Built at Taranto By whom built Cantiere Navale di Taranto Yard No. 143 When built 1954
Engines made at Turin By whom made FIAT S.G.M. Engine No. 3735 When made 1953
6382
Boiler No. When made 1954
Boilers made at Brescia & Taranto By whom made FRANCO TOSI S.p.A.
Port belonging to
Horse Power 7000 Owners "FASSIO" Soc. An. Navigaz?
N. Power as per Rule 1400 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.
Trade for which vessel is intended Carrying Petroleum in Bulk.

L ENGINES, &c. — Type of Engines Please see Genoa Rpt. No. 19763 2 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders Diameter of cylinders Length of stroke No. of cylinders No. of cranks
Mean Indicated Pressure Ahead Firing Order in Cylinders Span of bearings, adjacent to the crank, measured
from inner edge to inner edge Is there a bearing between each crank Revolutions per minute

Flywheel dia. Weight Moment of inertia of flywheel (46 lbs. in² or Kg. cm.²) Means of ignition Kind of fuel used

Crank shaft, Solid forged dia. of journals as per Rule Crank pin dia. Crank webs Mid. length breadth Thickness parallel to axis
Semi built dia. of journals as fitted Crank webs Mid. length thickness shrunk Thickness around eye hole
All built

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as fitted
as fitted

Shaft, diameter as per Rule Screw Shaft, diameter as per Rule Is the (tube screw) shaft fitted with a continuous liner
as fitted

Bronze Liners, thickness in way of bushes as per Rule 20.97 mm Thickness between bushes as per Rule 15.73 mm Is the after end of the liner made watertight in the
as fitted 21.00 mm as fitted 17.00 mm

Propeller boss Yes. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes. ✓

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 = 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 tube shaft No. If so, state type. = Length of bearing in Stern Bush next to and supporting propeller 1917 mm ✓
mts.

Propeller, dia. 5300 mm Pitch Var. No. of blades 4 Material M.B. whether moveable Fixed. Total developed surface 9.8 sq. feet

Moment of inertia of propeller (46 lbs. in² or Kg. cm.²) Kg. 154122 Kind of damper, if fitted None.

Method of reversing Engines Direct. Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes. ✓ Means of
operation Forced. Thickness of cylinder liners 60 mm Are the cylinder liners fitted with safety valves Yes. ✓ Are the exhaust pipes and flanges water cooled

Lagged with non-conducting material Lagged. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being siphoned
back to the engine = Cooling Water Pumps No. 3/4 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes ✓

Large Pumps worked from the Main Engines No. None Diameter = Stroke = Can one be overhauled while the other is at work =

Pumps connected to the Main Bilge Line No. and size 3 at 100 Tons/hr. 1/2 at 60 T/hr. 1 at 120 T/hr. 1 at 100 t/hr. ✓
(How driven) 1 Electric 2 Steam steam in pump rms. O.F. Trans.

Is the cooling water led to the bilges No. ✓ If so, state what special arrangements are made to deal with this water, in addition to the ordinary bilge pumping
arrangements = 1 M.E. driven 300 T/hr. ✓

Oil Pumps No. and size 2 at 100 T/hr. Power Driven Lubricating Oil Pumps, including pure pump, No. and size 1 Stm. 300 T/hr. ✓

Are two independent means arranged for circulating water through the Oil Cooler Yes. ✓ Suctions connected to both main bilge pumps and auxiliary
oil pumps, No. and size In machinery spaces 8 at 102mm ✓ 2 Blr. Flat at 76mm dia. In pump rooms 8 at 70mm 1 at 102mm.

Holds, &c. Fore Hold 2 at 89mm. Fwd. Store. 2 at 57mm.

Independent Power Pump Direct Suctions to the engine room bilges, No. and size 5. 2 at 133mm ✓ 3 at 357mm ✓
1 at 357mm ✓

Are the bilge suction pipes in holds and forward well fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

Are the bilge suction pipes in the machinery spaces fitted with strainers Yes. ✓ Are the bilge suction pipes in the machinery spaces fitted with strainers
Yes. ✓

1112
AIR RECEIVERS:—Have they been made under survey..... Yes. State No. of report or certificate. No. M.255 Gen.
Is each receiver, which can be isolated, fitted with a safety valve as per Rule..... Yes.
Can the internal surfaces of the receivers be examined and cleaned..... Yes. Is a drain fitted at the lowest part of each receiver..... Yes.
Injection Air Receivers, No. = Cubic capacity of each = Internal diameter = thickness =
Seamless, welded or riveted longitudinal joint = Material = Range of tensile strength = Working pressure by Rules = Actual =
Starting Air Receivers, No. 2 Total cubic capacity 24 cu.m. Internal diameter 1500 mm. thickness 30 mm.
Seamless, welded or riveted longitudinal joint Welded. Material MS. Range of tensile strength 42/48 Kg. Working pressure by Rules 30 Kg. Actual 30 Kg.
IS A DONKEY BOILER FITTED Yes If so, is a report now forwarded Yes for 2 WT Blrs. See Gen. Rpt. 19737 for
Is the donkey boiler intended to be used for domestic purposes only No.
PLANS. Are approved plans forwarded herewith for shafting No. Receivers No. Separate fuel tanks No.
(If not, state date of approval)
Donkey boilers WT. Yes. General pumping arrangements Yes. Pumping arrangements in machinery space Yes.
Oil fuel burning arrangements Yes.
Have Torsional Vibration characteristics been approved Yes. Date of approval

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes.
State the principal additional spare gear supplied.

CANTIERI NAVALI DI TARANTO S.p.A.
DIREZIONE CENTRALE
The foregoing is a correct description of the machinery. Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits 18.
30/4/53. 16/6/53. 8/9/53. 22/9/53. 20/10/53. 5.12.27/11/53. 7.12.29/12/53
22/1/54. 3.14.15.25.26/2/54. 5/3/54.
Dates of examination of principal parts—Cylinders..... Covers..... Pistons..... Rods..... Connecting rods.....
Crank shaft 22/1/54 Flywheel shaft..... Thrust shaft 22/1/54 Intermediate shafts 22/1/54 Tube shaft.....
Screw shaft 27/11/53 Propeller 27/11/53 Stern tube 12/11/53 Engine seatings Var. Engine holding down bolts 22/1/54
Completion of fitting sea connections 20/11/53 Completion of pumping arrangements 23/2/54 Engines tried under working conditions 21/2/54
Crank shaft, material..... Identification mark..... Flywheel shaft, material..... Identification mark..... Lloyd's I
Thrust shaft, material..... Identification mark..... Intermediate shafts, material E.F. Steel Identification marks 22/5/53 Lloyd's I
Tube shaft, material = Identification mark = Screw shaft, material E.F. Steel Identification mark Lloyd's I
Identification marks on air receivers See Gen. Rpt. No. 19763 29/5/53 F.

Welded receivers, state Makers' Name.....
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 Yes. ✓
Description of fire extinguishing apparatus fitted Piped CO₂ System. CO₂ and Froth portables. Accepted ✓
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 No. If so, state name of vessel =

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

The machinery of this vessel has been installed under Special Survey in accordance with the Society's Rules, the approved plans and the Secretary's letters. The material and workmanship are good. The machinery has been tried under working conditions in the basin and at sea with satisfactory results and is eligible in our opinion to have the record of + I.M.C. 3.54
OIL ENGINE. in the Register Book of the Society.

Dual Class 15% Reduction.

The amount of Entry Fee ... Lit. 357,000

Special ... £ :
Gen. Exs. 27,176
Donkey Boiler Fee... £ :
Travelling Expenses (if any) £ 234,211

When applied for 19

When received 19

Committee's Minute FRIDAY 2 APR 1954

Assigned + I.M.C. 3.54 Oil Eng.
1 DB (Ex. Gas) 114 lb.
2 DB (WT) 178 lb. cl.



Lloyd's Register Foundation