

REPORT ON OIL ENGINE MACHINERY.

No. 14870

JUN 11 1937

Received at London Office

Rpt. 4b.

of writing Report 21-5-37 10 When handed in at Local Office 4-6-37 10 Port of GENOA
 in Survey held at TURIN Date, First Survey 25/2/36 Last Survey 1/4/1937
 Book. 257 on the Single "FELLA" Tons { Gross 6072
 { Net 3748
 Screw vessel
 Built at TRIESTE By whom built Stabilimento Tecnico Yard No. 745 When built 1926/3
 Engines made at TURIN By whom made FIAT. Stab. Grandi Motori Engine No. 2403 When made 1937
 Key Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓
 Horse Power 4550 Owners "ITALIA", Soc. Anon. di Nav. Port belonging to Venice
 n. Horse Power as per Rule 1328 Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted ✓
 de for which vessel is intended 25-3 45-16

ENGINES, &c.—Type of Engines FIAT DL 646 Solid injection 2 or 4 stroke cycle 2 Single or double acting Double

Minimum pressure in cylinders 35 kgs/sq.cm. Diameter of cylinders 640 mm Length of stroke 1160 mm No. of cylinders 6 No. of cranks 6
 Indicated Pressure 4.27 kgs/sq.cm. Mean Indicated Pressure 5.13 kgs/cm²

of bearings, adjacent to the Crank, measured from inner edge to inner edge 928 mm Is there a bearing between each crank Yes
 Revolutions per minute 115 to 130 Flywheel dia. 2 x Weight 60000 kg/m² Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 439.9 mm Crank pin dia. 450 mm Crank Webs Mid. length breadth ✓ Thickness parallel to axis 290 mm
 as fitted 450 mm Mid. length thickness ✓ Thickness around eyehole 212.5 mm

Intermediate Shafts, diameter as per Rule 336.3 mm Thrust Shaft, diameter at collars as per Rule 353 mm
 as fitted 366 mm as fitted 450 mm

Screw Shaft, diameter as per Rule 368.6 mm Is the ✓ shaft fitted with a continuous liner Yes
 as fitted 405 mm

Liners, thickness in way of bushes as per Rule 18.8 mm Thickness between bushes as per rule 14.1 mm Is the after end of the liner made watertight in the
 as fitted 20 mm as fitted 18 mm

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

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 1600 mm

ller, dia. 4650 mm Pitch ✓ No. of blades ✓ Material ✓ whether Moveable ✓ Total Developed Surface ✓ sq. feet

d of reversing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched Yes Means of lubrication
✓ Thickness of cylinder liners upper 48.25 mm lower 40.75 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

ducting material ✓ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine ✓
 g Water Pumps, No. ✓ Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

Pumps worked from the Main Engines, No. ✓ Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓

s connected to the Main Bilge Line { No. and Size ✓
 { How driven ✓

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
 ements ✓

st Pumps, No. and size ✓ Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size ✓

o independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
 s, No. and size:—In Machinery Spaces ✓ In Pump Room ✓

ds, &c. ✓ Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size ✓

l the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes ✓ Are the Bilge Suctions in the Machinery Spaces
 m easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges ✓

Sea Connections fitted direct on the skin of the ship ✓ Are they fitted with Valves or Cocks ✓

y sized 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 ✓
 y 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 ✓

pipes pass through the bunkers ✓ How are they protected ✓
 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 ✓

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
 artment to another ✓ Is the Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

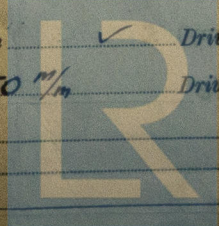
wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork ✓

Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

liary Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

ll Auxiliary Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

enging Air Pumps, No. 2, each with 3 cys. in tandem Diameter 880 mm Stroke 850 mm Driven by Main Motor
 Double Acting.
 liary Engines crank shafts, diameter as per Rule 99.9 mm
 as fitted 116 mm



Lloyd's Register
 Foundation

W 36 00 3

1437

AIR RECEIVERS:—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. ✓
High Pressure 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. ✓
If so, is a report now forwarded? ✓

IS A DONKEY BOILER FITTED? ✓
Is the donkey boiler intended to be used for domestic purposes only. ✓
PLANS. Are approved plans forwarded herewith for Shafting. 8/11/35, 21/1/36 Receivers. ✓
(If not, state date of approval) 28/2/36
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.

To be placed on board at Trieste

DUAL SURVEY
L.R. & R.I.

FIAT
The foregoing is a correct description,
34 Discharge Certificate
ING. GIOVANNI CHIESA

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1936 Feb. 25, May 29, June 10, 24, July 10, 16, 24, Aug. 6, 13, 31, Sept. 5, 11, 17, 28, Oct. 8, 12, 14, 22, 29, Nov. 5, 12, 19, 26, Dec. 17, 23, 30 :: 1937 Jan. 21, 28, Feb. 4, 8, Mar. 25, Apr. 1.
During erection on board vessel -- ✓
Total No. of visits 35

Dates of Examination of principal parts—Cylinders 14/10/36 Covers 3/8/36 Pistons 31/8/36 Rods 28/9/36 Connecting rods 10/7/36
Crank shaft 29/10/36 Flywheel shaft ✓ Thrust shaft 29/10/36 Intermediate shafts 26/6/36, 2/7/36 Tube shaft ✓
Screw shaft 28/7/36 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 S.M. Steel Identification Mark 10418 J. 1. 3. 2. 36 Flywheel shaft, Material Identification Mark 839 98. 6. 8. 36
Thrust shaft, Material S.M. Steel Identification Mark 5278 3. 7. 26 J. Q. Intermediate shafts, Material S.M. Steel Identification Marks 8464, 8465, 26, 8468, 8469, 21, 8470, 8471, 8, 8472, 8473, 21, 8474, 8475, 21, 8476, 8477, 21, 8478, 8479, 21, 8480, 8481, 21, 8482, 8483, 21, 8484, 8485, 21, 8486, 8487, 21, 8488, 8489, 21, 8490, 8491, 21, 8492, 8493, 21, 8494, 8495, 21, 8496, 8497, 21, 8498, 8499, 21, 8500, 8501, 21, 8502, 8503, 21, 8504, 8505, 21, 8506, 8507, 21, 8508, 8509, 21, 8510, 8511, 21, 8512, 8513, 21, 8514, 8515, 21, 8516, 8517, 21, 8518, 8519, 21, 8520, 8521, 21, 8522, 8523, 21, 8524, 8525, 21, 8526, 8527, 21, 8528, 8529, 21, 8530, 8531, 21, 8532, 8533, 21, 8534, 8535, 21, 8536, 8537, 21, 8538, 8539, 21, 8540, 8541, 21, 8542, 8543, 21, 8544, 8545, 21, 8546, 8547, 21, 8548, 8549, 21, 8550, 8551, 21, 8552, 8553, 21, 8554, 8555, 21, 8556, 8557, 21, 8558, 8559, 21, 8560, 8561, 21, 8562, 8563, 21, 8564, 8565, 21, 8566, 8567, 21, 8568, 8569, 21, 8570, 8571, 21, 8572, 8573, 21, 8574, 8575, 21, 8576, 8577, 21, 8578, 8579, 21, 8580, 8581, 21, 8582, 8583, 21, 8584, 8585, 21, 8586, 8587, 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