

REPORT ON OIL ENGINE MACHINERY.

No. 11734

26 JAN 1931

Date of writing Report

21-1-31

When handed in at Local Office

28-1-31 Port of

GENOA.

No. in Survey held at
Reg. Book.

TURIN.

Date, First Survey

APRIL 11th 1930.

Last Survey

23 DECEMBER 1931

Number of Visits

53.

Single
on the ~~Two~~
Triple
Quadruple } Screw vessel

"CORTELLAZZO"

Tons } Gross
Net

Built at

MONFALCONE.

By whom built

CANTIERI RIUNITI DEL ADRIATICO. Yard No. 228. When built 1931

Engines made at

TURIN.

By whom made

FIAT. STABILIMENTO GRANDI MOTORI. Engine No. 1640. When made 1931

Donkey Boilers made at

By whom made

Boiler No. ✓

When made ✓

Brake Horse Power

4,400.

Owners

SOCIETÀ VENEZIANA DI NAVI VAP.

Port belonging to

VENICE.

Nom. Horse Power as per Rule

7220.

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted ✓/ES.

Trade for which vessel is intended

1419.

OIL ENGINES, &c.—Type of Engines

F.I.A.T. L. 758.

2 or 4 stroke cycle 2.

Single or double acting

SINGLE.

Maximum pressure in cylinders

35 Kgs.

Diameter of cylinders

750. ✓

Length of stroke

1250. ✓

No. of cylinders

8 ✓

No. of cranks

8.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge

1050. ✓

Is there a bearing between each crank

YES.

Revolutions per minute

100. ✓

Flywheel dia.

3400. ✓

Weight

15 TONS ✓

Means of ignition

COMPRESSION.

Kind of fuel used

DIESEL OIL.

Crank Shaft, dia. of journals

as per Rule 467.4 ✓

as fitted 500. ✓

Crank pin dia.

500 ✓

Crank Webs

Mid. length breadth 800. ✓

shrunk

Thickness parallel to axis 3/8. ✓

Flywheel Shaft, diameter

as per Rule 500. ✓

Intermediate Shafts, diameter

as per Rule 362. ✓

as fitted 390. ✓

Thrust Shaft, diameter at collars

as per Rule 440. ✓

as fitted 440. ✓

Tube Shaft, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 430. ✓

as fitted

Is the tube

shaft fitted with a continuous liner

YES.

Bronze Liners, thickness in way of bushes

as per Rule 19.7 ✓

as fitted 22. ✓

Thickness between bushes

as per rule 14.3. ✓

as fitted 17. ✓

Is the after end of the liner made watertight in the

propeller boss

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

YES.

If 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

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

of the tube shaft

Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia.

5000. ✓

Pitch

No. of blades

Material

whether Moveable

Total Developed Surface

sq. feet

Method of reversing Engines

DIRECT.

Is a governor or other arrangement fitted to prevent racing of the engine

YES

Means of lubrication

Diesel.

Thickness of cylinder liners

55. ✓

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 watertline, what means are arranged to prevent water from being syphoned back to the engine

Sling Water Pumps, No.

Two, 255 ✓ x 246 ✓

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

Sump Pumps worked from the Main Engines, No.

Diameter

Stroke

Can one be overhauled while the other is at work

Pumps connected to the Main Bilge Line

No. and Size

How driven

Ballast Pumps, No. and size

Lubricating Oil Pumps, including Spare Pump, No. and size 2. GEAR PUMPS.

Two independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

Pumps, No. and size:—In Machinery Spaces

Holds, &c.

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

All the Bilge Suction pipes in Holds and Trunnel Well fitted with strum-boxes

Are the Bilge Suctions in the Machinery Spaces

from 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

Are 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

Are 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

Do all pipes pass through the bunkers

How are they protected

Do all pipes pass through the deep tanks

Have they been tested as per Rule

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Is there an 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

compartment to another

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

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

Air Compressors, No.

Two.

No. of stages

THREE.

Diameters

690/610/135 ✓

Stroke

720. ✓

Driven by MAIN ENGINES.

Auxiliary Air Compressors, No.

Two.

No. of stages

THREE.

Diameters

310/270/65 ✓

Stroke

360. ✓

Driven by DIESEL ENGINES.

Small Auxiliary Air Compressors, No.

ONE.

No. of stages

THREE.

Diameters

185/165/42 ✓

Stroke

140. ✓

Driven by SEMI-DIESEL ENGINE.

Scavenging Air Pumps, No.

Two. TANDEM.

Diameter

1320. ✓

Stroke

1100. ✓

Driven by MAIN ENGINES.

Auxiliary Engines crank shafts, diameter

as per Rule

as fitted

153. ✓

165. ✓

2cy 260 x 450 21Cyl.

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

No.

What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver

High Pressure Air Receivers, No.

Two.

Cubic capacity of each

200 LITRES.

Internal diameter

3/8. ✓

thickness

14. ✓

Seamless, lap welded or riveted longitudinal joint

SEAMLESS.

Material

STEEL.

Range of tensile strength

44-50 Kgs.

Working pressure by Rules

85.4 Kg. CM².

Starting Air Receivers, No.

36.

Total cubic capacity

14800 LITRES.

Internal diameter

400. ✓

thickness

17. ✓

Working pressure by Rules

85.4 Kg. CM².

Seamless, lap welded or riveted longitudinal joint

SEAMLESS.

Material

STEEL.

Range of tensile strength

44-50 Kg.

Working pressure by Rules

85.4 Kg. CM².

IS A DONKEY BOILER FITTED? ☒

If so, is a report now forwarded? ☒

PLANS. Are approved plans forwarded herewith for Shafting 25-9-29. 30-5-29. Receivers 3-2-30. 26-3-30. Separate Tanks ☒

Donkey Boilers ☒

General Pumping Arrangements ☒

Oil Fuel Burning Arrangements ☒

SPARE GEAR

WILL BE PLACED ON BOARD AT TRIESTE.

The foregoing is a correct description,

STABILIMENTO GRANDI MOTORI
di Sestore
ING. GIOVANNI CHIESA

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1930. APRIL 11, 18, 29. MAY 2, 13, 16, 23, 27, 30. JUNE 2, 5, 10, 17, 20, 27. JULY 1, 4, 8, 15, 18, 22, 25, 29. AUG. 1, 5, 8, 19, 22, 26, 29. SEPT. 3, 4, 9, 12, 16, 19, 23, 26, 30. OCT. 3, 7, 10, 14, 17, 21, 24. NOV. 19.
During erection on board vessel - DECEMBER 2, 9, 12, 16, 19, 23.
Total No. of visits 53 IN SHOPS.

Dates of Examination of principal parts - Cylinders 29-7-30 Covers 29-7-30 Pistons 26-8-30 Rods 3-1-30 Connecting rods 16-12-30

Crank shaft 16-12-30 Flywheel shaft Thrust shaft 5-8-30 Intermediate shafts 1-8-30 Tube shaft

Screw shaft 5-8-30 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 STEEL. Identification Mark K.H. 14105, 31-5-30 Flywheel shaft, Material Identification Mark

Thrust shaft, Material STEEL. Identification Mark S.A. 571, 4-7-30 Intermediate shafts, Material STEEL. Identification Marks G.B. 0223, 0267, 0228, 0229, 0230, 0231, 0232, 0233, 0234, 0235, 0236, 0237, 0238, 0239, 0240, 0241, 0242, 0243, 0244, 0245, 0246, 0247, 0248, 0249, 0250, 0251, 0252, 0253, 0254, 0255, 0256, 0257, 0258, 0259, 0260, 0261, 0262, 0263, 0264, 0265, 0266, 0267, 0268, 0269, 0270, 0271, 0272, 0273, 0274, 0275, 0276, 0277, 0278, 0279, 0280, 0281, 0282, 0283, 0284, 0285, 0286, 0287, 0288, 0289, 0290, 0291, 0292, 0293, 0294, 0295, 0296, 0297, 0298, 0299, 0300, 0301, 0302, 0303, 0304, 0305, 0306, 0307, 0308, 0309, 0310, 0311, 0312, 0313, 0314, 0315, 0316, 0317, 0318, 0319, 0320, 0321, 0322, 0323, 0324, 0325, 0326, 0327, 0328, 0329, 0330, 0331, 0332, 0333, 0334, 0335, 0336, 0337, 0338, 0339, 0340, 0341, 0342, 0343, 0344, 0345, 0346, 0347, 0348, 0349, 0350, 0351, 0352, 0353, 0354, 0355, 0356, 0357, 0358, 0359, 0360, 0361, 0362, 0363, 0364, 0365, 0366, 0367, 0368, 0369, 0370, 0371, 0372, 0373, 0374, 0375, 0376, 0377, 0378, 0379, 0380, 0381, 0382, 0383, 0384, 0385, 0386, 0387, 0388, 0389, 0390, 0391, 0392, 0393, 0394, 0395, 0396, 0397, 0398, 0399, 0400, 0401, 0402, 0403, 0404, 0405, 0406, 0407, 0408, 0409, 0410, 0411, 0412, 0413, 0414, 0415, 0416, 0417, 0418, 0419, 0420, 0421, 0422, 0423, 0424, 0425, 0426, 0427, 0428, 0429, 0430, 0431, 0432, 0433, 0434, 0435, 0436, 0437, 0438, 0439, 0440, 0441, 0442, 0443, 0444, 0445, 0446, 0447, 0448, 0449, 0450, 0451, 0452, 0453, 0454, 0455, 0456, 0457, 0458, 0459, 0460, 0461, 0462, 0463, 0464, 0465, 0466, 0467, 0468, 0469, 0470, 0471, 0472, 0473, 0474, 0475, 0476, 0477, 0478, 0479, 0480, 0481, 0482, 0483, 0484, 0485, 0486, 0487, 0488, 0489, 0490, 0491, 0492, 0493, 0494, 0495, 0496, 0497, 0498, 0499, 0500, 0501, 0502, 0503, 0504, 0505, 0506, 0507, 0508, 0509, 0510, 0511, 0512, 0513, 0514, 0515, 0516, 0517, 0518, 0519, 0520, 0521, 0522, 0523, 0524, 0525, 0526, 0527, 0528, 0529, 0530, 0531, 0532, 0533, 0534, 0535, 0536, 0537, 0538, 0539, 0540, 0541, 0542, 0543, 0544, 0545, 0546, 0547, 0548, 0549, 0550, 0551, 0552, 0553, 0554, 0555, 0556, 0557, 0558, 0559, 0560, 0561, 0562, 0563, 0564, 0565, 0566, 0567, 0568, 0569, 0570, 0571, 0572, 0573, 0574, 0575, 0576, 0577, 0578, 0579, 0580, 0581, 0582, 0583, 0584, 0585, 0586, 0587, 0588, 0589, 0590, 0591, 0592, 0593, 0594, 0595, 0596, 0597, 0598, 0599, 0600, 0601, 0602, 0603, 0604, 0605, 0606, 0607, 0608, 0609, 0610, 0611, 0612, 0613, 0614, 0615, 0616, 0617, 0618, 0619, 0620, 0621, 0622, 0623, 0624, 0625, 0626, 0627, 0628, 0629, 0630, 0631, 0632, 0633, 0634, 0635, 0636, 0637, 0638, 0639, 0640, 0641, 0642, 0643, 0644, 0645, 0646, 0647, 0648, 0649, 0650, 0651, 0652, 0653, 0654, 0655, 0656, 0657, 0658, 0659, 0660, 0661, 0662, 0663, 0664, 0665, 0666, 0667, 0668, 0669, 0670, 0671, 0672, 0673, 0674, 0675, 0676, 0677, 0678, 0679, 0680, 0681, 0682, 0683, 0684, 0685, 0686, 0687, 0688, 0689, 0690, 0691, 0692, 0693, 0694, 0695, 0696, 0697, 0698, 0699, 0700, 0701, 0702, 0703, 0704, 0705, 0706, 0707, 0708, 0709, 0710, 0711, 0712, 0713, 0714, 0715, 0716, 0717, 0718, 0719, 0720, 0721, 0722, 0723, 0724, 0725, 0726, 0727, 0728, 0729, 0730, 0731, 0732, 0733, 0734, 0735, 0736, 0737, 0738, 0739, 0740, 0741, 0742, 0743, 0744, 0745, 0746, 0747, 0748, 0749, 0750, 0751, 0752, 0753, 0754, 0755, 0756, 0757, 0758, 0759, 0760, 0761, 0762, 0763, 0764, 0765, 0766, 0767, 0768, 0769, 0770, 0771, 0772, 0773, 0774, 0775, 0776, 0777, 0778, 0779, 0780, 0781, 0782, 0783, 0784, 0785, 0786, 0787, 0788, 0789, 0790, 0791, 0792, 0793, 0794, 0795, 0796, 0797, 0798, 0799, 0800, 0801, 0802, 0803, 0804, 0805, 0806, 0807, 0808, 0809, 0810, 0811, 0812, 0813, 0814, 0815, 0816, 0817, 0818, 0819, 0820, 0821, 0822, 0823, 0824, 0825, 0826, 0827, 0828, 0829, 0830, 0831, 0832, 0833, 0834, 0835, 0836, 0837, 0838, 0839, 0840, 0841, 0842, 0843, 0844, 0845, 0846, 0847, 0848, 0849, 0850, 0851, 0852, 0853, 0854, 0855, 0856, 0857, 0858, 0859, 0860, 0861, 0862, 0863, 0864, 0865, 0866, 0867, 0868, 0869, 0870, 0871, 0872, 0873, 0874, 0875, 0876, 0877, 0878, 0879, 0880, 0881, 0882, 0883, 0884, 0885, 0886, 0887, 0888, 0889, 0890, 0891, 0892, 0893, 0894, 0895, 0896, 0897, 0898, 0899, 0900, 0901, 0902, 0903, 0904, 0905, 0906, 0907, 0908, 0909, 0910, 0911, 0912, 0913, 0914, 0915, 0916, 0917, 0918, 0919, 0920, 0921, 0922, 0923, 0924, 0925, 0926, 0927, 0928, 0929, 0930, 0931, 0932, 0933, 0934, 0935, 0936, 0937, 0938, 0939, 0940, 0941, 0942, 0943, 0944, 0945, 0946, 0947, 0948, 0949, 0950, 0951, 0952, 0953, 0954, 0955, 0956, 0957, 0958, 0959, 0960, 0961, 0962, 0963, 0964, 0965, 0966, 0967, 0968, 0969, 0970, 0971, 0972, 0973, 0974, 0975, 0976, 0977, 0978, 0979, 0980, 0981, 0982, 0983, 0984, 0985, 0986, 0987, 0988, 0989, 0990, 0991, 0992, 0993, 0994, 0995, 0996, 0997, 0998, 0999, 1000

Tube shaft, Material Identification Mark Screw shaft, Material STEEL. Identification Mark G.B. 0218, 5-8-30

Is the flash point of the oil to be used over 150° F. YES. SPARE. G.B. 0217, 10-12-30

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

Is this machinery duplicate of a previous case YES. If so, state name of vessels M.S. "BARBARIGO" & M.S. "BIRMANIA"

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

THE MACHINERY OF THIS VESSEL HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS.

THE MATERIALS AND WORKMANSHIP ARE GOOD AND THE ENGINES WHEN TRIED ON THE TEST BED WERE FOUND TO WORK SATISFACTORILY.

THE MACHINERY HAS NOW BEEN FORWARDED TO TRIESTE WHERE IT WILL BE INSTALLED ON BOARD THE M.V. "CORTELLAZZO" AND WHEN THIS HAS BEEN CARRIED OUT TO THE SATISFACTION OF THE SOCIETY'S SURVEYORS AT THAT PORT THE VESSEL WILL BE ELIGIBLE, IN OUR OPINION, TO BE CLASSED IN THE SOCIETY'S REGISTER BOOK AND TO HAVE THE NOTATION "OIL ENGINES" ✕ L.M.C. (WITH DATE.)

Committee's Minute TUE. 31 MAR '93
Assigned See F.E. Rpt.

The amount of Entry Fee 9710.00
Special 1200.00
Donkey Boiler Fee 720.00
Travelling Expenses (if any) 2741.00
When applied for, 19
When received, 9.4.19

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