

# Report on Oil Engine Machinery.

No. 2153.

21 JUN 1943

Date of writing Report 5<sup>th</sup> May, 1943. When handed in at Local Office 7<sup>th</sup> May, 1943. Port of Maharrö.  
No. in Survey held at Maharrö Date, First Survey 14<sup>th</sup> Jan. 1942. Last Survey 18<sup>th</sup> March 1943.  
Reg. Book Number of Visits 179.

on the Tonnage Screw vessel "LA PLATA" Tons Gross 7372 Net 4329.  
Built at Maharrö By whom built Hockmarrs Mek. V. A. B. Yard No. 251 When built 1943.  
Engines made at Maharrö By whom made Hockmarrs Mek. V. A. B. Engine No. 302/3 When made 1943.  
Donkey Boilers made at Lurud By whom made Carl Holmbergs Mek. V. Boiler No. 4319 When made 1943.  
Brake Horse Power  $2 \times 3270 = 6540$  Owners Rederiaktiebolaget Nordstjärnan Port belonging to Hockmarrs.  
Nom. Horse Power as per Rule 1501 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes.  
Trade for which vessel is intended

OIL ENGINES, etc. Type of Engines K 6 2 4 120 2 or 4 stroke cycle 2 Single or double acting Single.  
Maximum pressure in cylinders 50 kg. cm<sup>2</sup>. Diameter of cylinders 680 mm. Length of stroke 1200 mm. No. of cylinders  $2 \times 6 = 12$ . No. of cranks  $2 \times 6 = 12$ .  
Mean Indicated Pressure 5.6  
Span of bearings adjacent to the Crank, measured from inner edge to inner edge 910 mm. Is there a bearing between each crank Yes.  
Revolutions per minute (125) Flywheel dia. 2100 mm. Weight 3400 kg. Means of ignition Diesel engt. Kind of fuel used Heavy oil.  
Crank Shaft, Semi built dia. of journals as per Rule 416.5 mm. Crank pin dia. 440 mm. Crank Webs Mid. length breadth 700 mm. Thickness parallel to axis 265 mm. Journals. Thickness dross eye hole 197.5 mm.  
Flywheel Shaft, diameter as fitted 440-332 mm. Intermediate Shafts, diameter as per Rule 306 mm. Thrust Shaft, diameter at collars as per Rule 321 mm.  
Tube Shaft, diameter as fitted 365 mm. 367 for ice screw shaft fitted with a continuous liner No liner.

Bronze 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 propeller boss If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner.  
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.  
If two liners are fitted, is the shaft lapped or protected between the liners. Is an approved Oil Gland fitted at the after end of the tube shaft.  
Propeller, dia. 4320 mm. 4570 mm. No. of blades 3 Material Hammer steel. Length of Bearing in Stern Bush next to and supporting propeller 1890 mm. Total Developed Surface 132 sq. feet.

Method of reversing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when disclutched. Means of lubrication Lubed. Thickness of cylinder liners 42 mm. Are the cylinders fitted with safety valves. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged.  
Cooling Water Pumps, No. 2 each of 275 m<sup>3</sup>/H. Is the sea provided with an efficient strainer which can be cleared within the vessel.  
Bilge 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 4. 1 of 150 m<sup>3</sup>/H, 1 of 90 m<sup>3</sup>/H, 1 of 55 m<sup>3</sup>/H and 1 of 20 m<sup>3</sup>/H. Electric driven.

In the cooling water led to the bilges No, led overboard. so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping arrangements.  
Ballast Pumps, No. and size 1. 150 m<sup>3</sup>/H. Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 2. each of 195 m<sup>3</sup>/H.

Are 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 4-3" and 2-2" 1-3 1/2" & 2-2" in shaft tunnels. 1-3 1/2" in efford. low deep & tunnel tanks. In Pump Room.  
In Holds, etc. 2-3 1/2" in No. 1 & 3 holds. 1-3 1/2" in deep tank port & stbd. 3-3 1/2" in No. 4 hold. 1-3 1/2" & 2-3" in No. 5 hold.

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 4-5". Are all the Bilge Suction pipes in Holds and Pannel Well fitted with strain-boxes. Are the Bilge Suctions in the Machinery Spaces.  
Are all Sea Connections fitted direct on the skin of the ship. Are they fitted with Valves or Cocks. Are the Overboard Discharges above or below the deep water level.  
Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates. Are the Blow Off Cocks fitted with a spigot and brass covering plate.

What pipes pass through the bunkers. None How are they protected. Are the pipes for bottom tanks below. Have they been tested as per Rule.  
What pipes pass through the deep tanks. Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times.  
Is the 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 upper eng. platform.

Main Air Compressors, No. 2 No. of stages 2 Diameters 300 & 110 mm. Stroke 180 mm. Driven by electric motors.  
Auxiliary Air Compressors, No. 2 No. of stages 2 Capacity 110 lit./min. Driven by Ans. dynamo oil engine.  
Small Auxiliary Air Compressors, No. 1 No. of stages 2 Small air compressor Driven by Main engines.

What provision is made for fast charging the Air Receivers. 2 x 2 Jarrdarrn Diameter 1200 mm. Stroke 850 mm. Driven by  
Seawater Air Pumps, No. 2 x 2 Jarrdarrn Diameter 152 mm. 170 mm. LLOYD'S 10920, 10923, 10917, 10921 No. 4  
Auxiliary Engines crank shafts diameter as per Rule 10920, 10923, 10917, 10921 No. 4  
as fitted 170 mm. PK. 23-1-42, PK 30-1-42  
Is the machinery Engine room constructed under special survey. Yes Is a report ever been made.



AIR RECEIVERS—Have they been made under survey *Yes* State No. of Report or Certificate *✓*  
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule *Yes*  
 Have the internal surfaces of the receivers been examined and cleaned *Yes*  
*Small starting* Air Receivers, No. *1* Cubic capacity of each *200 litres* Internal diameter *444 mm.* Thickness *12 mm.*  
 Seamless, lap welded or riveted longitudinal joint *Seamless* Material *Steel* Range of tensile strength *50.1-52.1 kg./mm<sup>2</sup>* Working pressure *63.2 kg./cm<sup>2</sup>*  
 Starting Air Receivers, No. *2.* Total cubic capacity *20.4 m<sup>3</sup>* Internal diameter *1650 mm.* Thickness *27 mm.*  
 Seamless, lap welded or riveted longitudinal joint *Painted* Material *Steel* Range of tensile strength *Shell: 44.7-53.4 kg./mm<sup>2</sup>* Working pressure *30.6 kg./cm<sup>2</sup>*  
 IS A DONKEY BOILER FITTED? *Yes* Is so, is a report also forwarded? *Yes*  
 Is the donkey boiler intended to be used for domestic purposes only? *For heating vegetable oil.*  
 PLANS. Are approved plans forwarded herewith for Shifting *16.4.1941* Receivers *24.4.1941* Separate Fuel Tanks *12.10.1941*  
 Donkey Boilers *1.12.1941* General Pumping Arrangements *4.6.1941* Pumping Arrangements in Machinery Space *4.6.1941*  
 Oil Fuel Burning Arrangements *12.10.1942*

#### SPARE GEAR

Has the spare gear required by the Rules been supplied? *Yes*  
 State the principal additional spare gear supplied *Main engine: 1 piston rod. Telescope cooling pipes for one of 1 complete fuel pumps. 1 propeller shaft. 1 cast iron propeller of each hand. Auxiliary oil engine: 1 cylinder cover. 1 cylinder liner. 1 piston.*

#### To complete survey:

The main and auxiliary engines and pumps to be tried under working conditions.

The foregoing is a correct description.

*Hockmors Mek Verkstad A-B, 1942 / G. Lundqvist*

*E. Hjort*

Dates of Survey while building	During progress of work in shops	14/1, 15/1, 19/1, 21/1, 23/1, 29/1, 30/1, 31/1, 1/2, 2/2, 3/2, 4/2, 5/2, 6/2, 7/2, 8/2, 9/2, 10/2, 11/2, 12/2, 13/2, 14/2, 15/2, 16/2, 17/2, 18/2, 19/2, 20/2, 21/2, 22/2, 23/2, 24/2, 25/2, 26/2, 27/2, 28/2, 29/2, 30/2, 31/2, 1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7/3, 8/3, 9/3, 10/3, 11/3, 12/3, 13/3, 14/3, 15/3, 16/3, 17/3, 18/3, 19/3, 20/3, 21/3, 22/3, 23/3, 24/3, 25/3, 26/3, 27/3, 28/3, 29/3, 30/3, 31/3, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4, 10/4, 11/4, 12/4, 13/4, 14/4, 15/4, 16/4, 17/4, 18/4, 19/4, 20/4, 21/4, 22/4, 23/4, 24/4, 25/4, 26/4, 27/4, 28/4, 29/4, 30/4, 31/4, 1/5, 2/5, 3/5, 4/5, 5/5, 6/5, 7/5, 8/5, 9/5, 10/5, 11/5, 12/5, 13/5, 14/5, 15/5, 16/5, 17/5, 18/5, 19/5, 20/5, 21/5, 22/5, 23/5, 24/5, 25/5, 26/5, 27/5, 28/5, 29/5, 30/5, 31/5, 1/6, 2/6, 3/6, 4/6, 5/6, 6/6, 7/6, 8/6, 9/6, 10/6, 11/6, 12/6, 13/6, 14/6, 15/6, 16/6, 17/6, 18/6, 19/6, 20/6, 21/6, 22/6, 23/6, 24/6, 25/6, 26/6, 27/6, 28/6, 29/6, 30/6, 31/6, 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