

URUGUAYAN
NATIONAL ARMADA
Frigate R.O.U. 22 "Oyarvide"
Uruguay



ARMADA NACIONAL

Fuel: Diesel

Machine/Type: Boat/Engine

Test: Fuel Efficiency and Maintenance

Xp Lab, Inc.

946 Hawthorn St. San Diego, CA 92101
Tel. (619) 233-3111 Fax: (619)233-3112
Xp3@xplab.com <http://www.xp3.com>

OBJETIVE

Report of the results generated when using Xp3 in the diesel that consumes, for a period of 3 months, one of the frigates of the Uruguayan National Navy.

Dosage and procedure:

The frigate fuel tanks were treed with Xp3 in a proportion of 1:4000 during all the term of the test

Reported results

The following, are the results observed after three trips after using Xp3:

- 1) Fuel performance improvement (consumption).
- 2) The time between filter replacements was extended
- 3) At the time we did major maintenance, after the additive was used, it was noticed that there were almost no carbonaceous residues in the combustion chamber, on the head of cylinder and pistons
- 4) The exhaust smoke quality has improved at a glance, indicating that it has been so optimized due to the combustion quality, meaning the fuel.
- 5) The exhaust temperature of the 12 cylinders on V, decreased in some tenths of a degree, verifying also a greater parity values do the same, which indicates that it has an impact in keeping in good shape the fuel, pump and injectors.
- 6) The download values of the turbo blowers changed, improving the charge air pressure. This is showing an improvement in the performance of the machine, since the resulting are connected, it improves the quality of combustion and power.
- 7) With the rough sea conditions before using the treatment, the fuel filters were constantly plugged. Due to the fact that when the fuel tanks were moving, the fuel would get with sludge, varnish, etc. Today, these problems no longer exist, even showing a variation in the color of the purified fuel oil of the service tanks, which is very similar to the fuel oil filled in Germany, which is a much better oil.

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