

MEXICAN PETROLEUM INSTITUTE

GOD/1329

Mexico City
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In response to your request of November 8 of this year for the evaluation in laboratory tests of Blue Sky additive D-1280X, we are herein attaching the results of such tests done with commercial Pemex-Diesel. In accordance with recommendations given to us by your company, the dosage of the additive used was at the volume rate of 1 of additive by 1280 of diesel.

The results show a satisfactory performance in the detergency evaluation, since the fume emissions determined in Bosch fume units (UHB) diminished from 3.14 to 1.6. We should point out that the emissions are also lower than the 1.76 UHB reference parameter empirically determined to rate additives with the potential of good performance in cleaning the fuel injection system of diesel engines.

We also have a satisfactory performance with respect to particulate matter emissions, since we registered a reduction from 0.08 to 0.03 g/BHP-Hr with the use of the additive.

On the other hand, in the lubricity test, using the ASTM-D-6079 Standard Method, a slight increase was noticed in the lubricant characteristics of the fuel, although not enough to fulfill the specifications of 0.45 mm maximum evidence of wear. In the rest of the tests, rust prevention, oxidation stability, and low temperature fluidity, no changes were observed in the performance of Pemex-Diesel with the use of this additive.

If you have any questions or doubts we would be happy to be of help.

Yours sincerely,

Olga Pie Contijoch (Chemical expert)
Fuel Additive Area

Copy to Engineer J. Huascar Angulo García. Chemical Products Manager.