INSTITUTO MEXICANO DEL PETROLEO

COORDINACION DE PROTECCION AMBIENTAL

RESULTS OBTAINED ON TEST No. EOE-4330 ON BUNKER FUEL OIL
TESTY CONDUCTED BY MEXICAN OIL COMPANY
ENERGY CONTROL DEPARTMENT

EMISSIONS

Xp3 was formulated to significantly reduced the PARTICULATE EMISSIONS CO, Nox, SO2 and OPACITY

TEST: Conducted on boiler to show the effects of using Xp3 with fuel oil # 6

Source: Technical Report issued by Energy Contral Department from
Instituto Mexicano del Petroleo (November 1995)

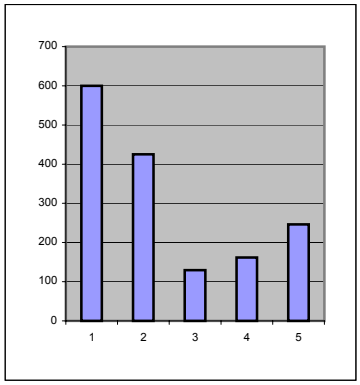
RESULTS:

SUSPENDED PARTICULATES (1)

	w/o	with Xp3	Reduction
Particulate Concentration (mg/m3 N)	**230.09**	**161.65**	**29.74%**
Particulate Emissions (kg/h)	**0.2925**	**0.1799**	**38.50%**
Opacity	**5**	**3**	**40.00%**

(1) Results with 5% oxygen on chimney gases

TOTAL SUSPENDED PARTICULATES



1) 600 Ecological Norma for the Mexican Republic

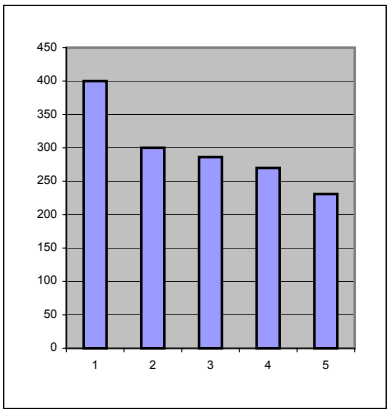
2) 425 Ecological Norma for Critical Zone in Mexico

3) 129.32 With Xp3 (7% of O2 in combustion gases)

4) 161.65 With Xp3 (5% of O2 in combustion gases)

5) 246.35 With Xp3 (3% of O2 in combustion gases)

NOx EMISSIONS CORRECTED AT 5% OF O2



1) 400 Ecological Norma for the Mexican Republic

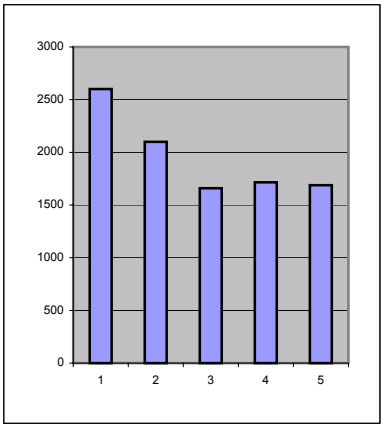
2) 300 Ecological Norma for Critical Zone in Mexico

3) 286.1 With Xp3 (7% of O2 in combustion gases)

4) 270 With Xp3 (5% of O2 in combustion gases)

5) 230.8 With Xp3 (3% of O2 in combustion gases)

SO2 EMISSIONS CORRECTED AT 5% OF O2



1) 2600 Ecological Norma for the Mexican Republic

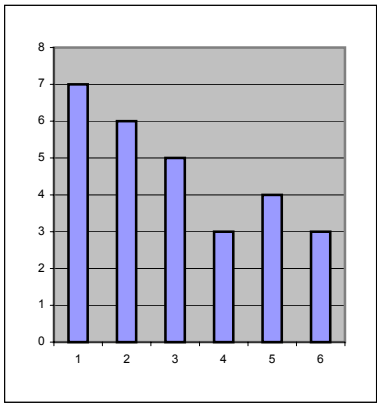
2) 2100 Ecological Norma for Critical Zone in Mexico

3) 1659 With Xp3 (7% of O2 in combustion gases)

4) 1716 With Xp3 (5% of O2 in combustion gases)

5) 1688 With Xp3 (3% of O2 in combustion gases)

OPACITY



1) 7 With Xp3 (3% of O2 in combustion gases)

2) 6 W/O Xp3 (3% of O2 in combustion gases)

3) 5 With Xp3 (5% of O2 in combustion gases)

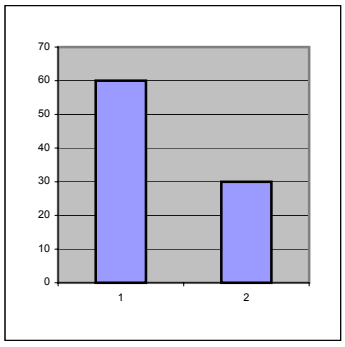
4) 3 W/O Xp3 (5% of O2 in combustion gases)

5) 4 With Xp3 (7% of O2 in combustion gases)

6) 3 W/O Xp3 (7% of O2 in combustion gases)

TEST CONDUCTED ON BUSES
DIESEL No. 2 FUEL

SMOKE OPACITY



60 W/O 40
30 With Xp3 25

STARTING TIME