

FERROCARRILES NACIONALES DE MEXICO

Mexico Valley Terminal
Tlanepantla
México

Fuel: Diesel

Machine/Type: Train/Engine

Test: Combustion Efficiency

Xp Lab, Inc.

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CASE STUDY



Test on engine No. NM-11025

OBJECTIVE

A test was done in order to know the potential savings the use of Xp3 will generate when used in the diesel fuel consumed by the cargo train going from Mexico City to Cuernavaca. A particulate emissions test was also performed during this period. A report of this last test was issued separately.

PROCESS

18 identical trips were made, 9 of them without, and 9 with Xp3. The same locomotive, load and machinist was used during the test. An Xp Lab representative traveled in the machine for all the 18 trips.

Results:

Comparative Table – Trip with and without Xp3

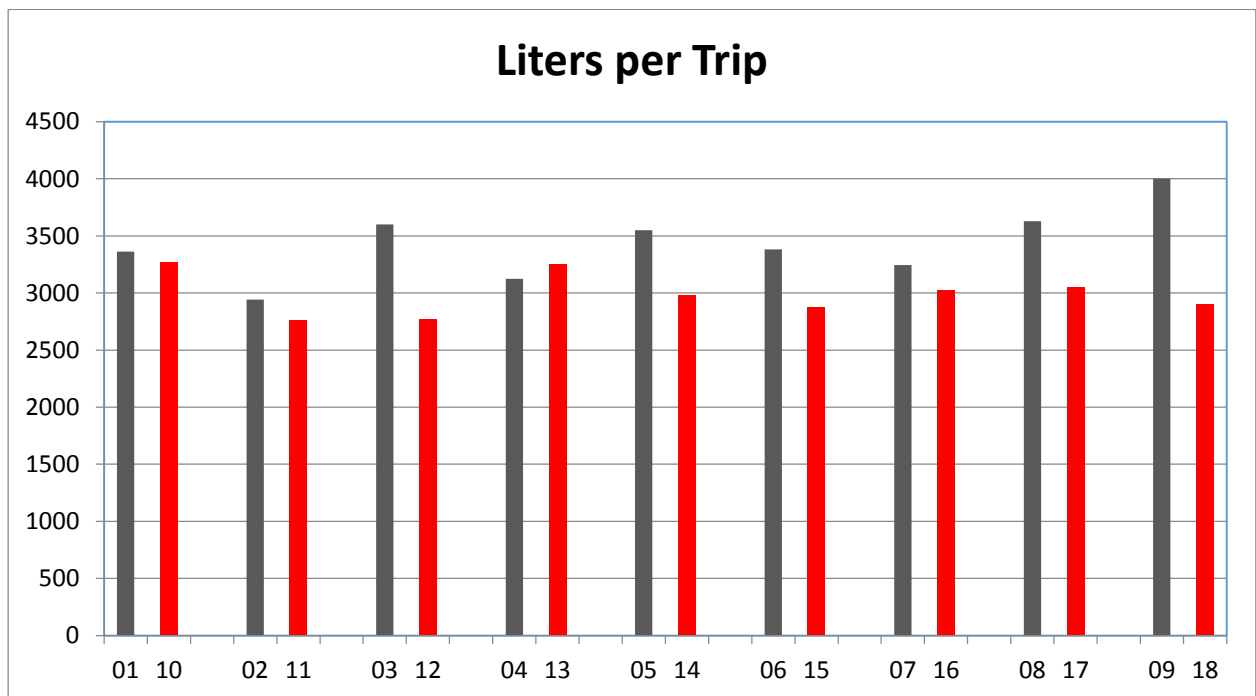
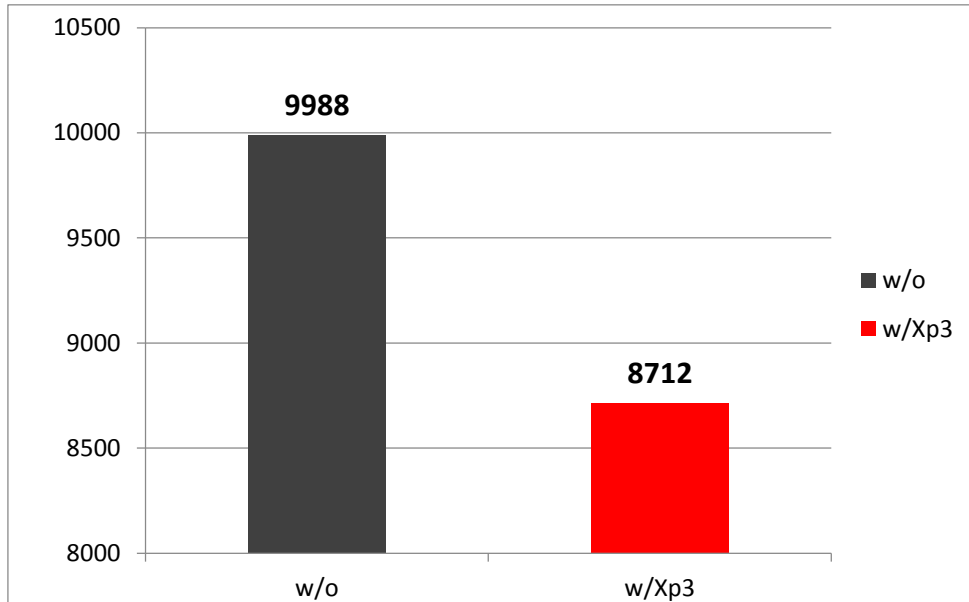
	Trips without Xp3									
	01	02	03	04	05	06	07	08	09	TOTALS
Km. Travelled	343	343	343	343	343	343	343	343	343	3087
Litters of Diesel	3362	2941	3601	3125	3550	3383	3244	3627	4000	30833
Lt/Km	9802	8574	10499	9111	10350	9863	9458	10574	11662	9988
Total Tons Load	3321	3430	2215	2595	3230	2420	3480	3485	3410	27586

	Trips with Xp3									
	10	11	12	13	14	15	16	17	18	TOTALS
Km. Travelled	343	343	343	343	343	343	343	343	343	3087
Litters of Diesel	3267	2765	2774	3250	2982	2879	3026	3050	2900	26893
Lt/Km	9525	8061	8087	9475	8694	8394	8822	8892	8455	8712
Total Tons Load	3700	950	3165	3500	2690	3190	3220	3385	2890	26690

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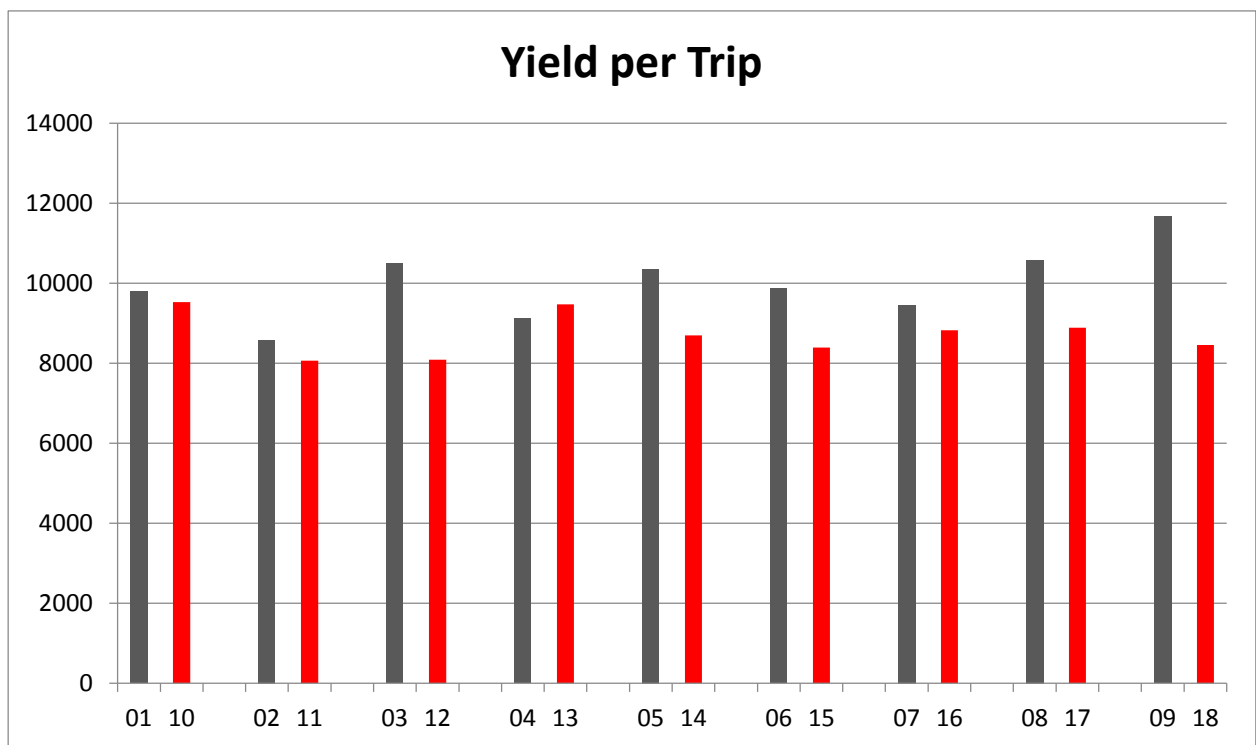
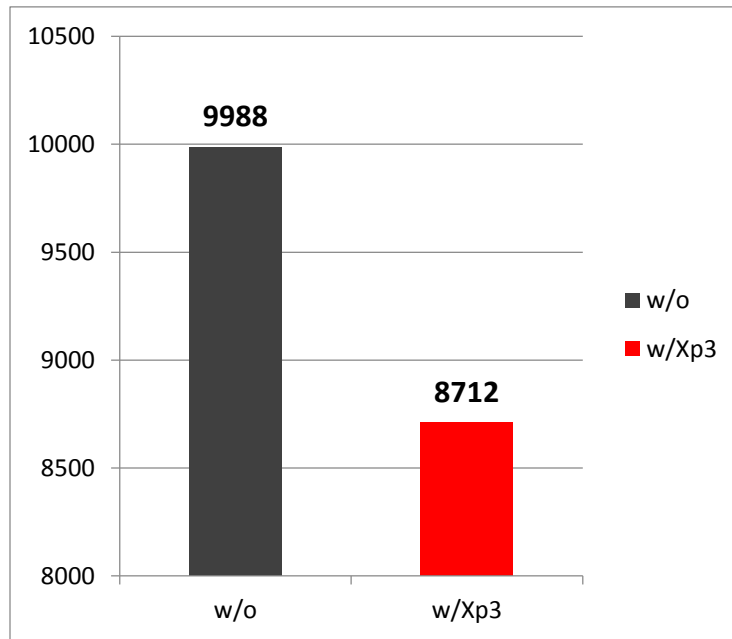
Fuel Consumption (Lts) 12.77% Savings Lts/Km



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Yield per Trip (Lts/Km)



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