

LG-X EVALUATION ON A CFN LOCOMOTIVE



CFN - Companhia Ferroviaria do Nordeste (www.cfn.com.br) – a Brazil railroad company with headquarters in Fortaleza running 7400km of railroad in the northeast of the country conducted an evaluation of an LG-X Magnetic Fuel Conditioner in April 2004.

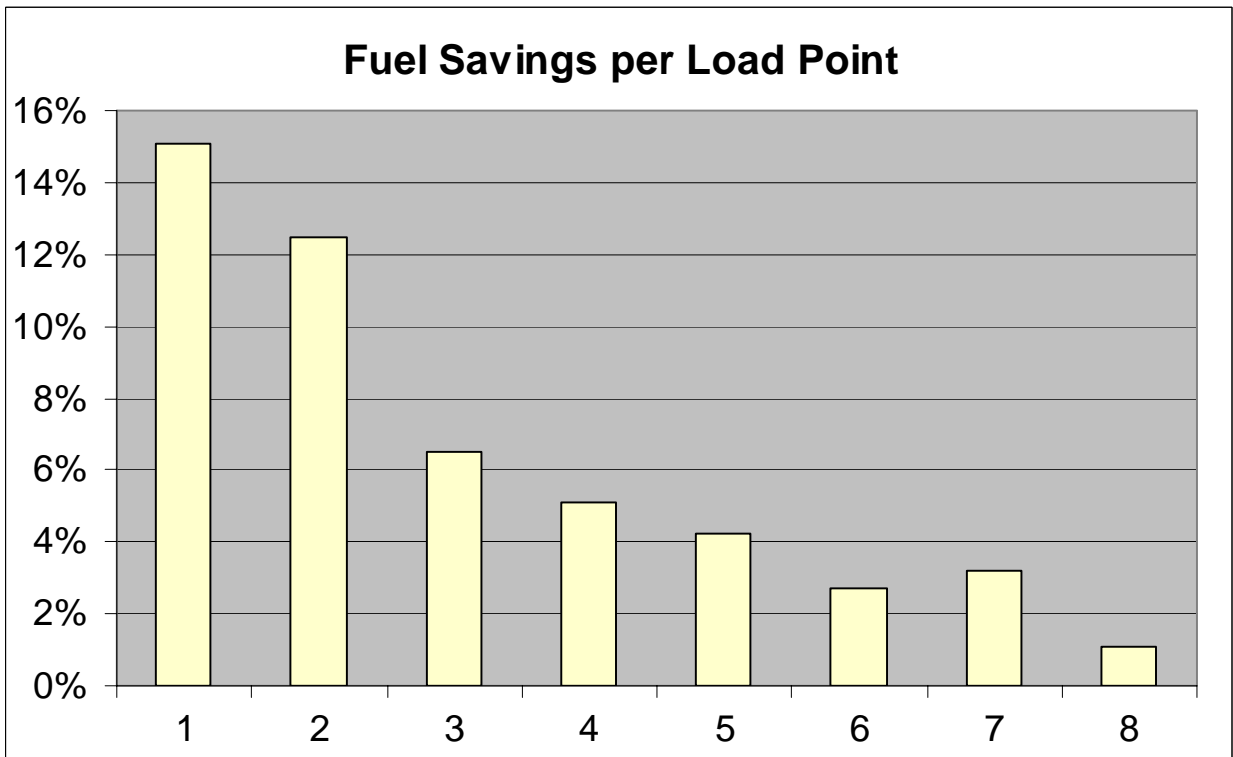
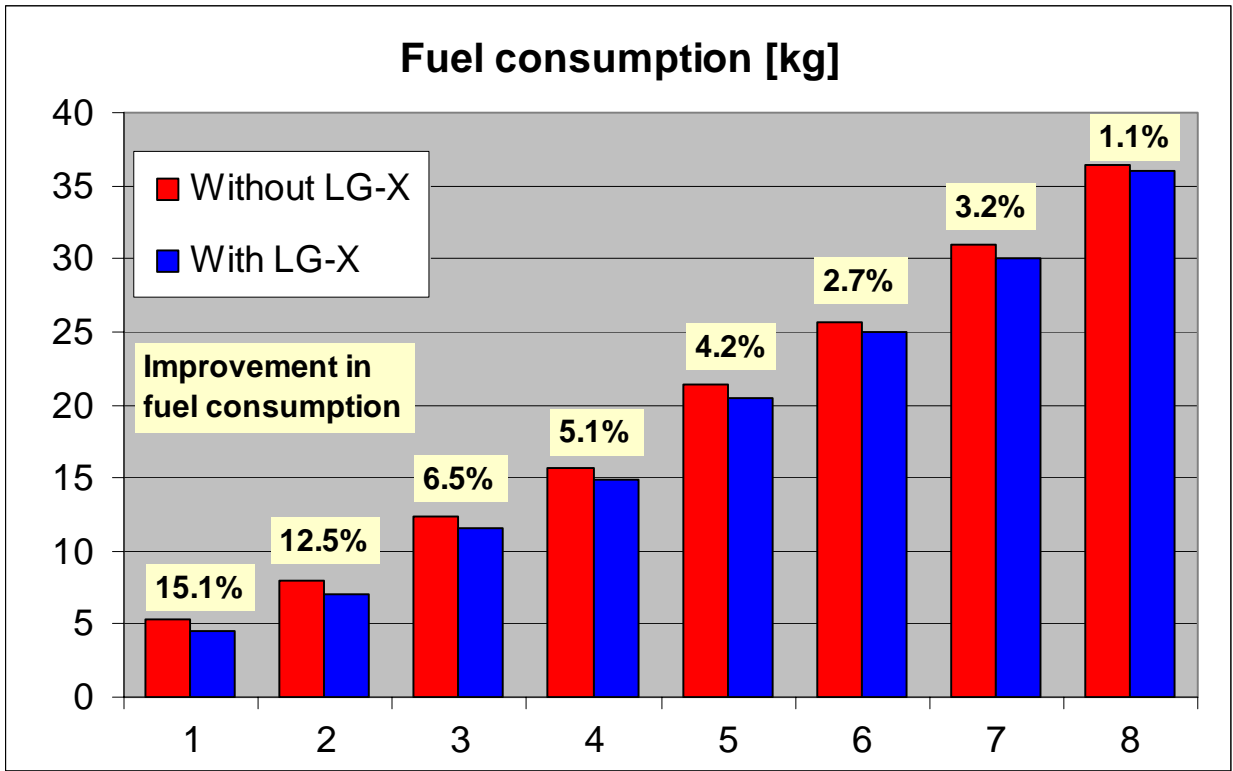


The locomotive used was an ALCO RSD8 with a 1050hp engine. 8 different load points were measured for 10 minutes each, first without and then with and LG-X 1500 Fuel Conditioner installed.

Load point	Without LG-X [kg diesel fuel]	With LG-X [kg diesel fuel]	Difference in fuel consumption [%]
1	5.3	4.5	15.09
2	8.0	7.0	12.50
3	12.3	11.5	6.50
4	15.7	14.9	5.10
5	21.4	20.5	4.21
6	25.7	25.0	2.72
7	31.0	30.0	3.23
8	36.4	36.0	1.10
AVG.			6.31



Average fuel saving were 6.31%. Improvements in fuel consumption for point 2 and 3 (mainly used in maneuvering) came out to be 9.5% and 4.71% for point 4 and 5 (mainly used on trips).



CFN is expecting to **save about \$ 30,000.00 a month just on fuel.**

Improved fuel quality also has a major impact on periodic maintenance. It extends filter and oil change intervals, fuel injectors and fuel pump life and environmental aspects due to reduced exhaust gases, particulate and soot.