

AFE

EMISSIONS CARBON MONOXIDE (CO - PPM)

Machines: Alsthom (origin - French), turbo engine - 12 cylinders in V aprox. 800 HP.

Maq. 809	Pre Treatment				1st Treatment with Xp3				2nd Treatment with Xp3			
	date	Regimen	Temperature	CO	date	Regimen	Temperature	CO	date	Regimen	Temperature	CO
0 hours	11\4	Ralentí	normal	1140	1\9	Ralentí	62°C	890		****	*****	***
	**	****	****	***	"	1500 rpm	"	770		****	*****	***
250 "	19\5	"	58°C	1090	18\10	Ralentí	70°C	840		****	*****	***
		1500 rpm	62°C	970		1500 rpm	"	790		****	*****	***
500 "	3\7	Ralentí	60°C	1020	27\10	Ralentí	72°C	800	8\3	Ralentí	74°C	780
		1500 rpm	"	960		1500 rpm	72°C	730		1500 rpm	"	720
750 "	1\8	Ralentí	70°C	980	12\12	Ralentí	70°C	790	19\4	Ralentí	76°C	790
		1500 rpm	"	840		1500 rpm	70°C	740		1500 rpm	"	710
Maq. 816	date	Regimen	Temperature	CO	date	Regimen	Temperature	CO	date	Regimen	Temperature	CO
0 hours	30\5	Ralentí	64°C	810		****	*****	***		****	*****	***
		1600 rpm	"	780		****	*****	***		****	*****	***
250 "	3\7	Ralentí	68°C	780	27\11	Ralentí	67°C	620	7\3	Ralentí	69°C	550
		1500 rpm	"	760		1500 rpm	"	600		1500 rpm	"	540
500 "		****	*****	***	23\1	Ralentí	68°C	650		****	*****	***
		****	*****	***		1500 rpm	"	650		****	*****	***
750 "	18\10	Ralentí	60°C	740		****	*****	***	23\5	Ralentí	62°C	500
		1500 rpm	62°C	720		****	*****	***		1500 rpm	"	460

Emission measurement were started on April/11/00 and ended on May/23/01.

Observations:

Machine 809: From Nov-4-00 to Aug 1-00 (pre treatment rune 5.093 km.. And was on 780 hours it consumed 14.535 liters of diesel. **2,85lts./km - 18,63 lts/h.**

On the first Xp3 treatments (Sept/1/00 to Dec/12/00), it rune 4942 km., and was on 760 hours, it consumed a total of 13,866 liters of diesel **2,8lts./km - 18,24 lts/h.**

On the second Xp3 treatments (Dec/15/00 to April/19/00), it rune 4898 km., and was on 755 hours, it consumed a total of 13,321 liters of diesel **2,72 lts./km - 17,64 lts/h.**

Conclusion: There was a reduction in the first period of treatment equal to **1,75% lts./km.** and **2,09% lts./h.** During the second treatment period the consumption was of **4,56% and 5,31%.**