

Notice: System was working over this period without DPF. Overall Information

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Vehicle plate number	33637 (34119)		
CPK data logger number	LN: 001492, DN: 1933, Sim +989210000000		
Bus line	Number 2 (west to east bus line)		
Bus Terminals	Khavaran Bus Terminal - Western Bus Terminal		
Total path distance	19 km		
DPF company producer	Dinex_02 (Passive system with FBC)		
Installation date	02/Jun/2015		
Report period	16/Jun/2016 – 30/Jun/2016 (fifteen days)		
K value - DPF upstream	- [1/m]		
K value – DPF downstream	- [1/m]		

Table1- Overall Information

Table 2- DPF Maintenance History

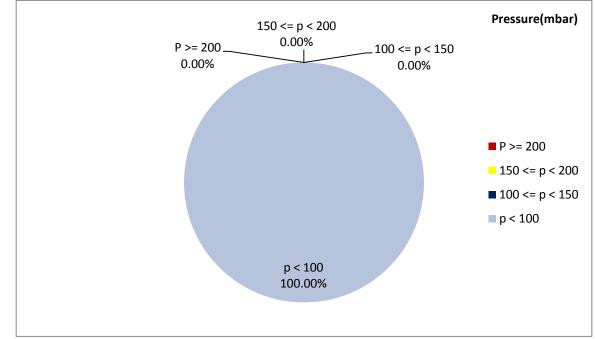
Filter maintenance date	DPF has been removed after two weeks working on Jun 17 th . After receiving cleaning machine DPF was cleaned on Aug 10 th and was installed on Aug 22 nd but worked only for ten days. The last cleaning was done on Sep 24 th but cleaning issue was unavoidable after only three days working. Finally DPF was replaced by muffler on Sep 8 th and system have been working from that date without DPF.
Dosing status	Additive dosing was increased 60% of its initial value for tests two and three.



Bus mileage over the period	3988 km			
Working days over the period	15 days			
Stop days	0 day			
Data logger working days	15 days			
Working hours over the period	236 hours 4 minutes			
Average working hours per day (including stop days)	15 hours 44 minutes			
Bus average speed	16.9 km/hr			
idle speed time to all working time ration	26.13 %			
Total Bus fuel consumption over the period	1795 lit			
Fuel consumption per hour	7.6 lit/hr			
Average fuel consumption	0.45 lit/km			

Table 3- Fuel and Additive Consumption Information





Temperature, Pressure and Engine Speed Overview

Figure 1- Pressure distribution over the working hours

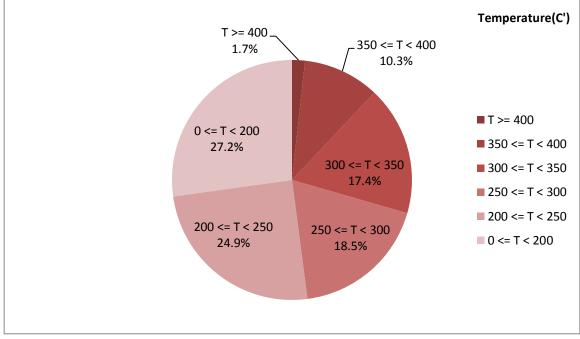


Figure 2-Temperature distribution over the working hours



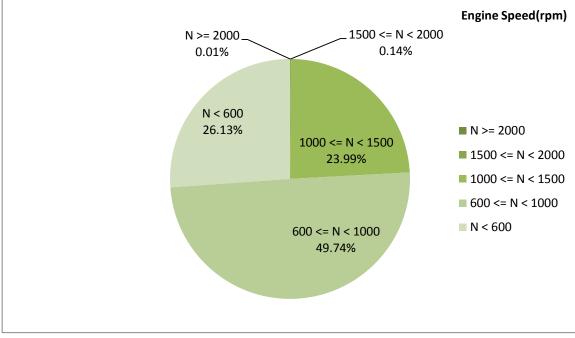


Figure 3- Engine speed distribution over the working hours

Table 4- Mean values

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
251.05	1.14	816

Table 5- Mean values without idling

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
273.12	1.55	911

Table 6- Max-min values

Max-min temperature(C)	Max-min pressure(mbar)	Max-min engine speed(rpm)
486-50	72-0	2064-288



Detailed Pressure Analysis

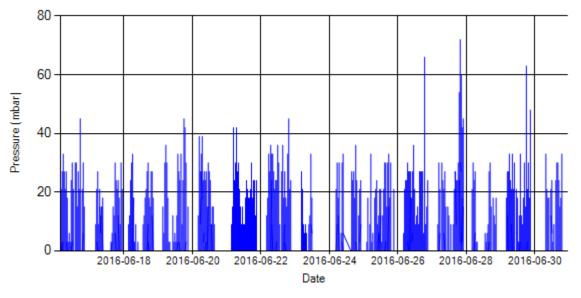


Figure 4- Pressure distribution over the period

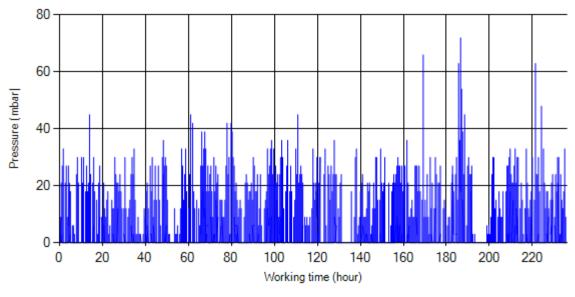


Figure 5- Pressure vs. working hours

Notice: backpressure distribution was shown into two diagrams. As obvious in figure 5, stopworking periods were eliminated and pressure was displayed along working hours.



Detailed Temperature Analysis

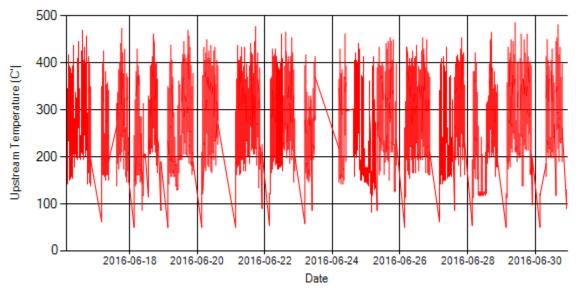


Figure 6- Temperature distribution over the period

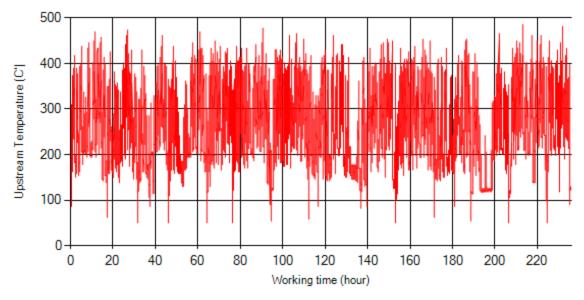


Figure 7- Temperature vs. working hours



Engine Speed Diagrams

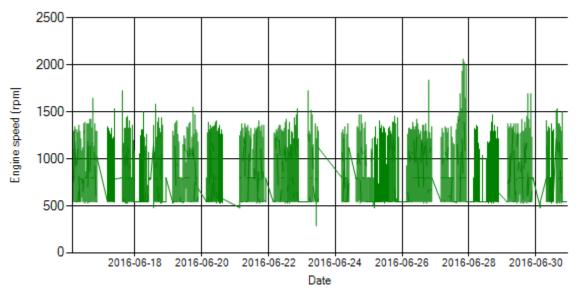


Figure 8- Engine speed distribution over the period

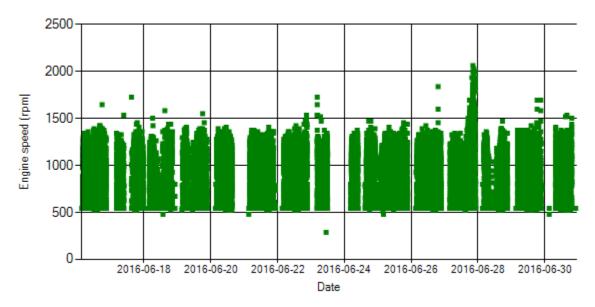


Figure 9- Engine speed diagram for calculating CPK's working days



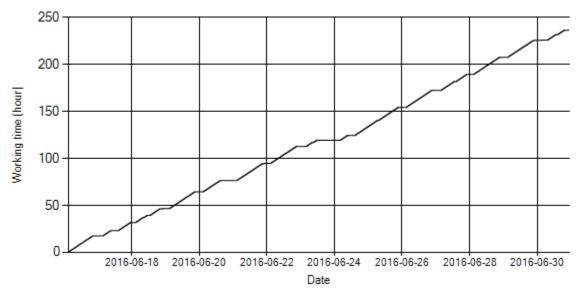
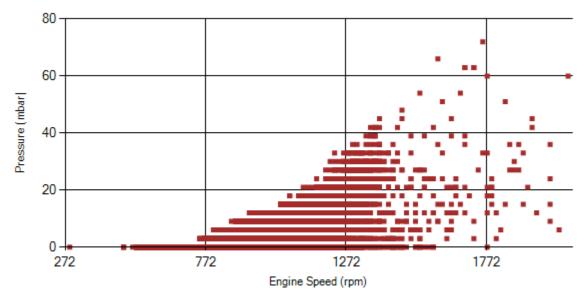


Figure 10- Time diagram for calculating CPK's working days

Notice: Data logger sampling time can be calculated from Figure 10. The lines parallel with Date axis show days without data logger data. As depicted in Figure 10 system was working all days of the period.

Pressure-Engine Speed diagrams







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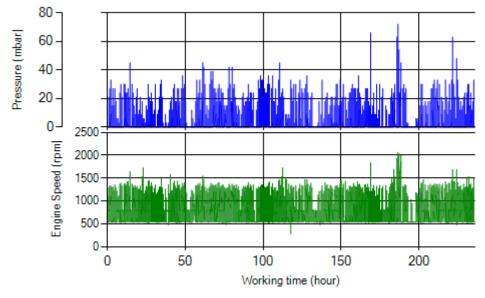


Figure 12- P, N distribution vs. working hours

Temperature-Engine Speed diagrams

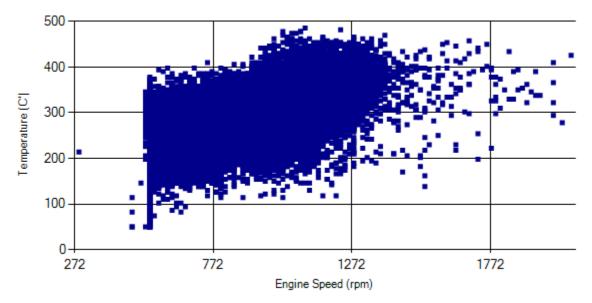


Figure 13- Temperature against engine speed



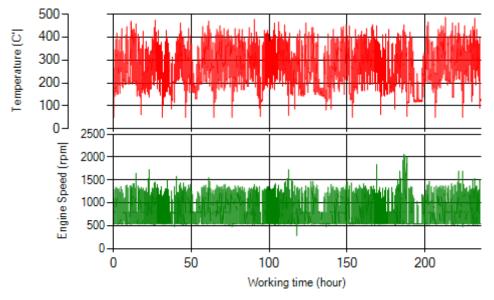


Figure 14- T, N distribution vs. working hours

Filter Operation Analysis

Notice: System was working over this period without DPF.