

Date: 21/May/2016

Notice: System was working over this period without DPF.

Overall Information

Table1- Overall Information

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	01/Apr/2016 – 15/Apr/2016 (fifteen days)	
K value - DPF upstream	- [1/m]	
K value – DPF downstream	- [1/m]	

Table 2- DPF Maintenance History

rable 2 Bit 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.	



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Table 3- Fuel and Additive Consumption Information

Table 5 Tact and Additive Co	
Bus mileage over the period	2649 km
Working days over the period	15 days
Stop days	0 days
Data logger working days	15 days
Working hours over the period	230 hours 35 minutes
Average working hours per day (including stop days)	15 hours 22 minutes
Bus average speed	11.5 km/hr
idle speed time to all working time ration	55.96 %
Total Bus fuel consumption over the period	1668 lit
Fuel consumption per hour	7.2 lit/hr
Average fuel consumption	0.63 lit/km



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Temperature, Pressure and Engine Speed Overview

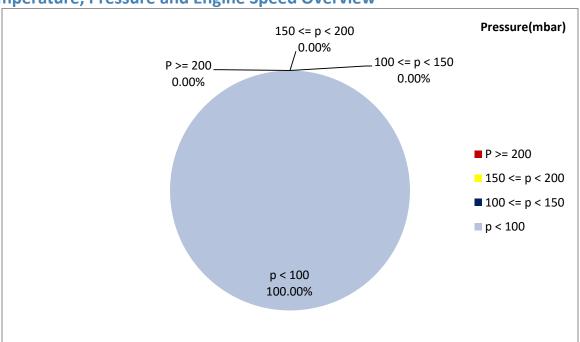


Figure 1- Pressure distribution over the working hours

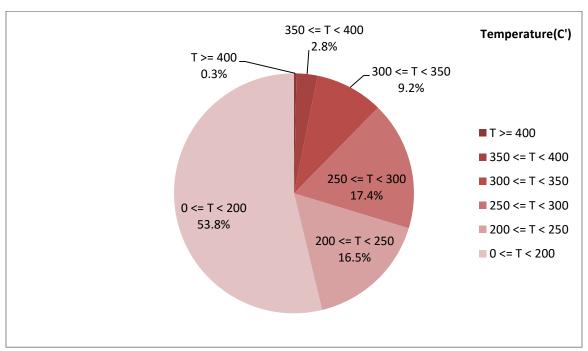


Figure 2-Temperature distribution over the working hours



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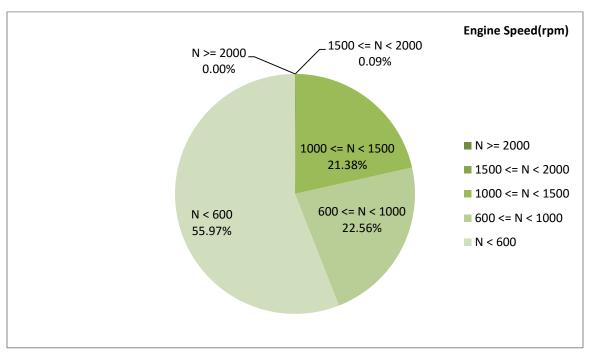


Figure 3- Engine speed distribution over the working hours

Table 4- Mean values

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
202.39	0.74	730

Table 5- Mean values without idling

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
266.12	1.67	965

Table 6- Max-min values

Max-min temperature(C)	Max-min pressure(mbar)	Max-min engine speed(rpm)
446-50	63-0	1952-272



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Detailed Pressure Analysis

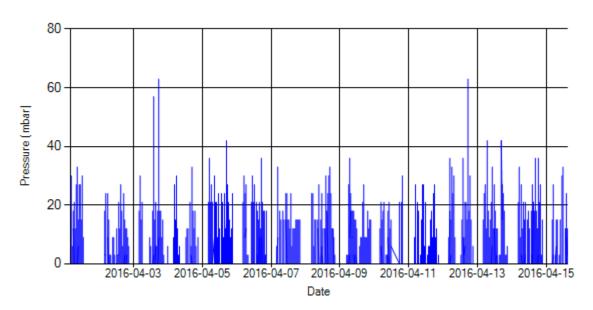


Figure 4- Pressure distribution over the period

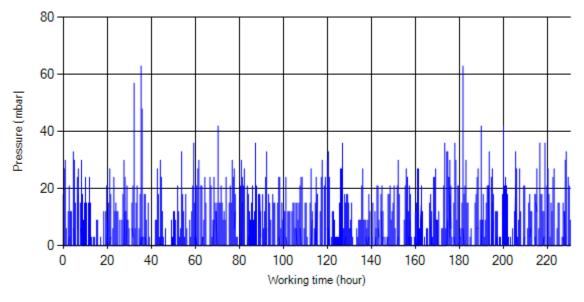


Figure 5- Pressure vs. working hours

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



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Detailed Temperature Analysis

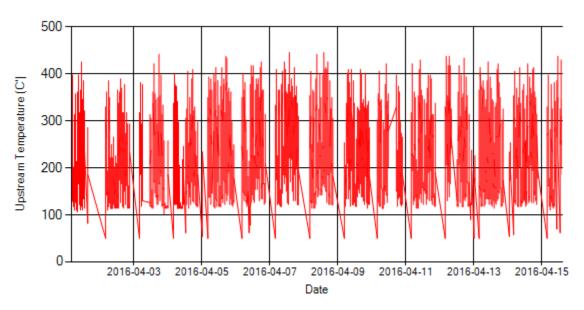


Figure 6- Temperature distribution over the period

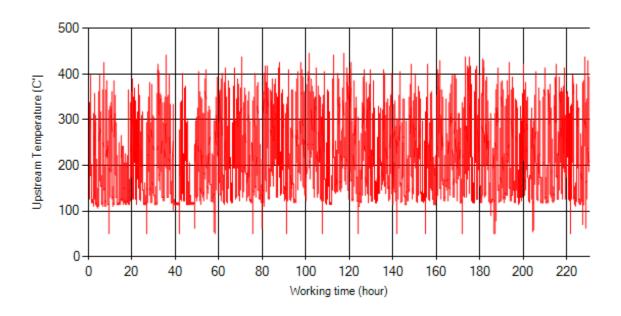


Figure 7- Temperature vs. working hours



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Engine Speed Diagrams

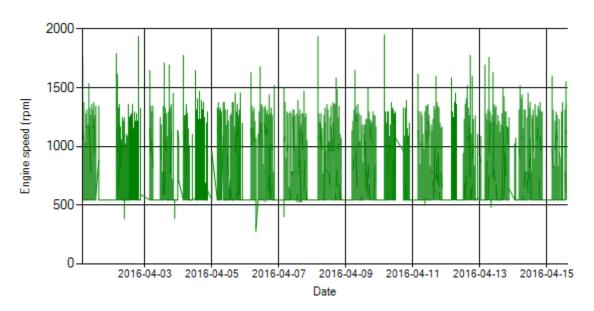


Figure 8- Engine speed distribution over the period

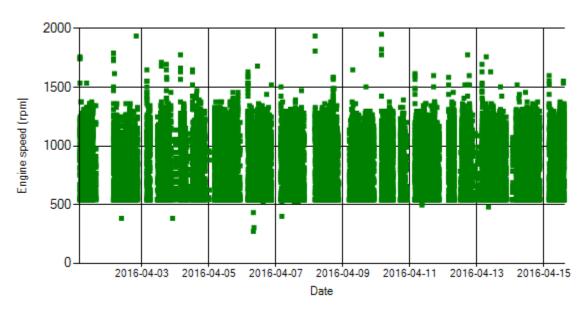


Figure 9- Engine speed diagram for calculating CPK's working days



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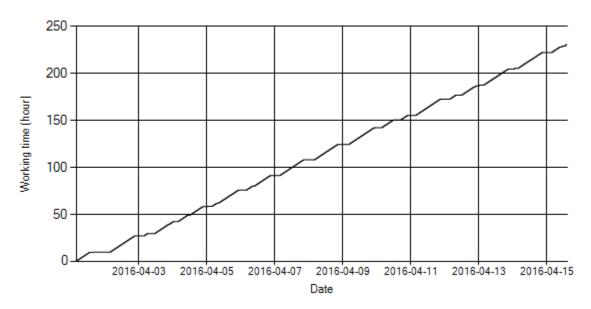


Figure 10- Time diagram for calculating CPK's working days

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 during the period.

Pressure-Engine Speed diagrams

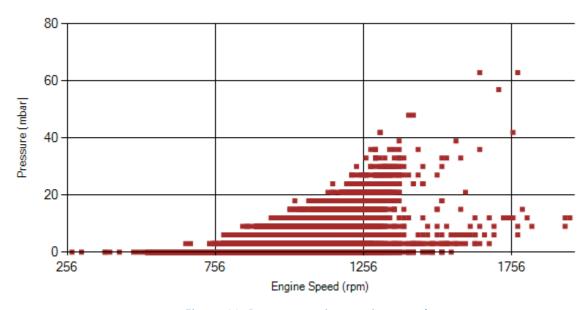


Figure 11- Pressure against engine speed



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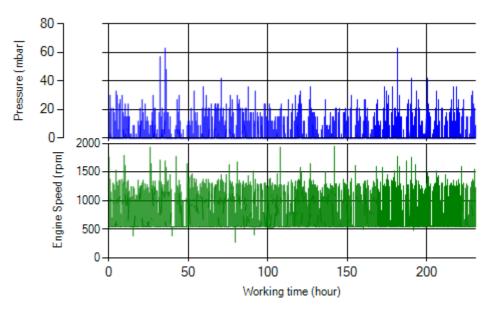


Figure 12- P, N distribution vs. working hours

Temperature-Engine Speed diagrams

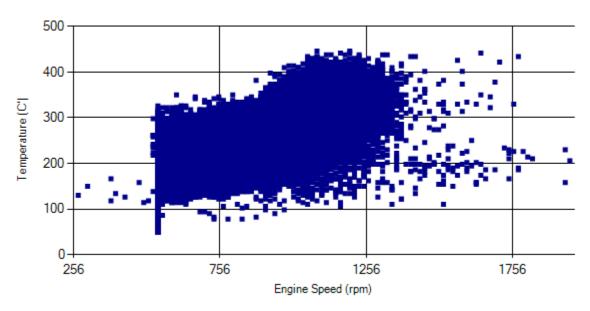


Figure 13- Temperature against engine speed



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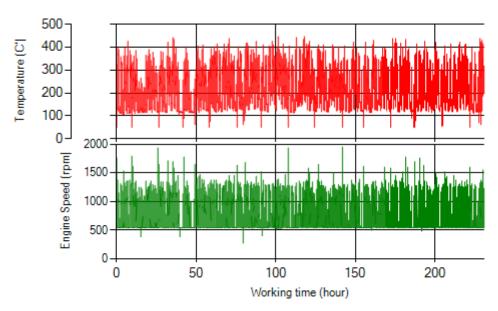


Figure 14- T, N distribution vs. working hours

Filter Operation Analysis

Notice: System was working over this period without DPF.