

Overall Information

Table1- Overall Information			
Vehicle plate number	85476		
CPK data logger number	LN: 001508, DN: 2003, Sim +989218469624		
Bus line	Number 10 (south to north Bus line)		
Bus Terminals	Azadi square - Daneshgah square		
Total path distance	10.7 km		
DPF producer company	HJS_04 (Passive system with FBC)		
Installation date	23/Feb/2015		
Report period	16/May/2016 – 31/May/2016 (sixteen days)		
K value - DPF upstream	1.95 [1/m]		
K value – DPF downstream	0.02 [1/m]		

Table 2- DPF Maintenance History

Filter maintenance date	DPF was cleaned on 22 nd Jul for the first time and on 15 th Dec for the second time after 44355 km mileage from installation date.
Dosing status	Dosing value has been kept constant from installation date until now.



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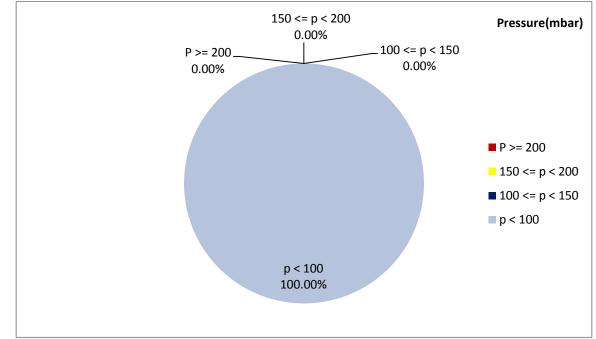
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Date: 4/Jun/2016

Pus mileage (from DDF installation date)	66761 km
Bus mileage (from DPF installation date)	66761 KIII
Bus mileage over the period	2504 km
Working days over the period	16 days
Stop days	0 day
Data logger working days	16 days
Working hours over the period	158 hours 33 minutes
Average working hours per day (including stop days)	9 hours 54 minutes
Bus average speed	15.8 km/hr
idle speed time to all working time ration	39.87 %
Total Bus fuel consumption over the period	1577 lit
Fuel consumption per hour	9.94 lit/hr
Average fuel consumption	0.63 lit/km
Total Bus additive consumption over the period	0.756 lit
Average additive consumption	302.3 cc/km
Additive consumption to fuel ration	480 cc/1000lit

Table 3- Fuel and Additive Consumption Information





Temperature, Pressure and Engine Speed Overview

Figure 1- Pressure distribution over the working hours

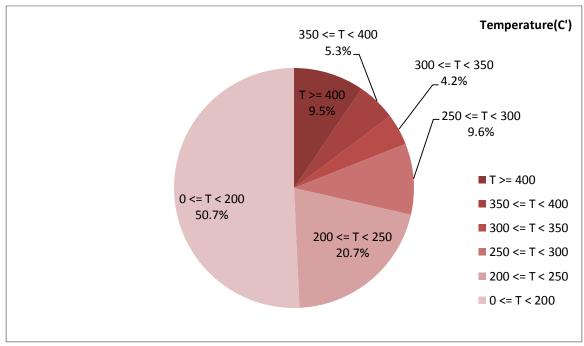


Figure 2-Temperature distribution over the working hours



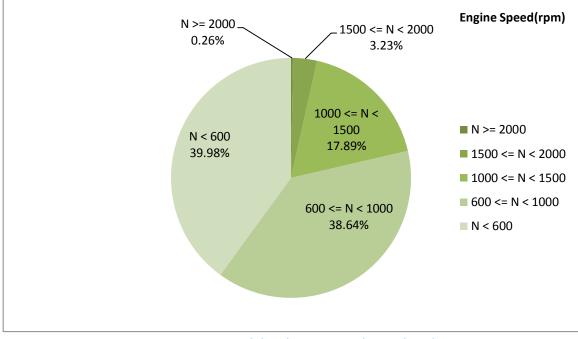


Figure 3- Engine speed distribution over the working hours

Table 4- Mean values

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
228.97	0.02	763
220.97	0.02	703

Table 5- Mean values without idling

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
254.8	0.04	889

Table 6- Max-min values

Max-min temperature(C)	Max-min pressure(mbar)	Max-min engine speed(rpm)
558-50	6-0	2432-320

Notice: Due to the problem in backpressure hosing system and missing lots of data, the pressure distribution diagrams are not correct and reliable.



Detailed Pressure Analysis

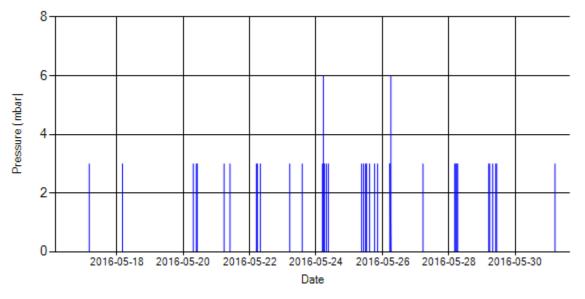


Figure 4- Pressure distribution over the period

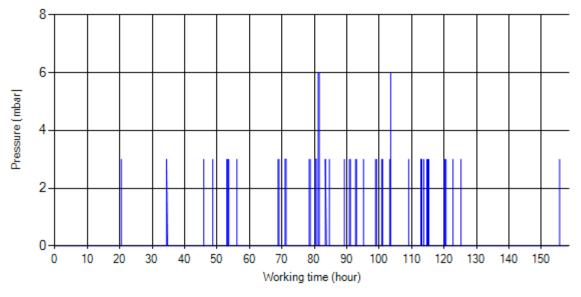


Figure 5- Pressure vs. working hours

Notice: Due to the problem in backpressure hosing system and missing lots of data, the pressure distribution diagrams are not correct and reliable.



Detailed Temperature Analysis

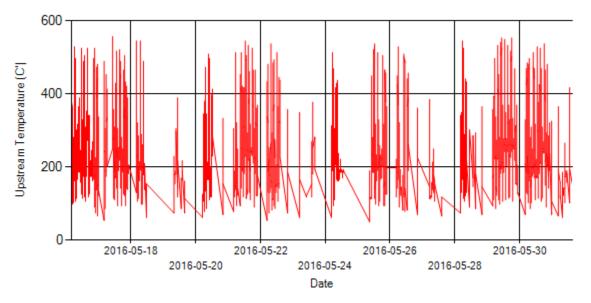


Figure 6- Temperature distribution over the period

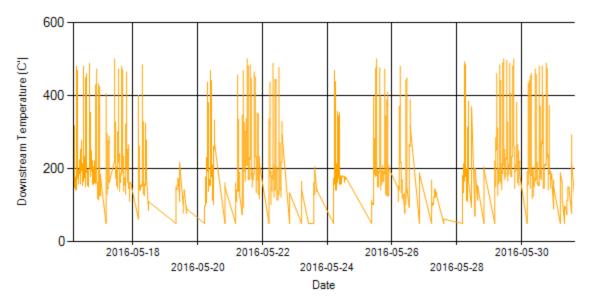


Figure 7- Temperature distribution over the period



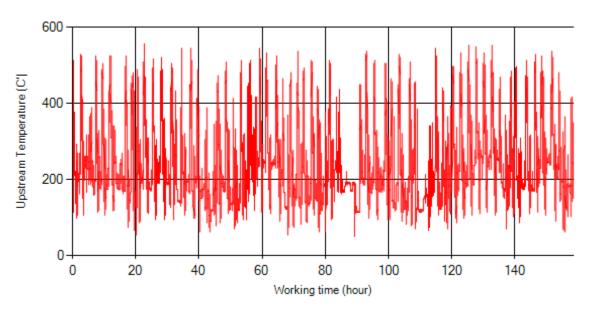


Figure 8- Temperature vs. working hours

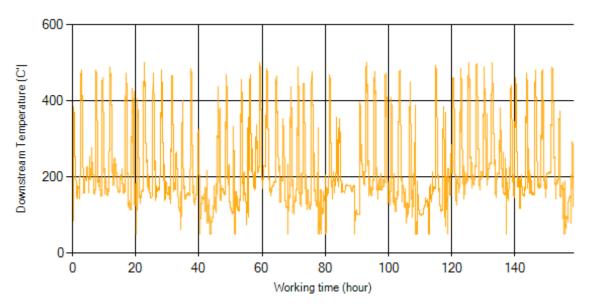


Figure 9- Temperature vs. working hours



Engine Speed Diagrams

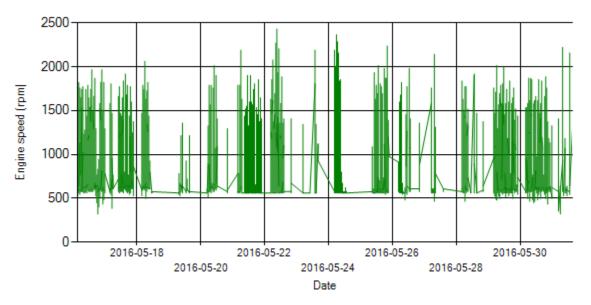


Figure 10- Engine speed distribution over the period

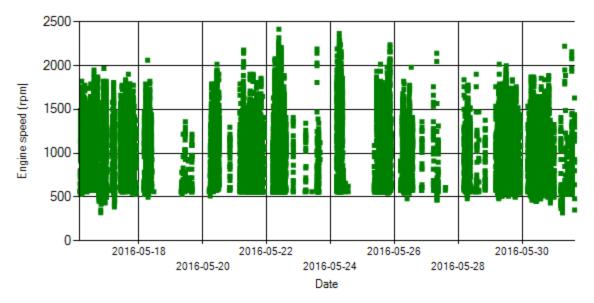


Figure 11- Engine speed diagram for calculating CPK's working days



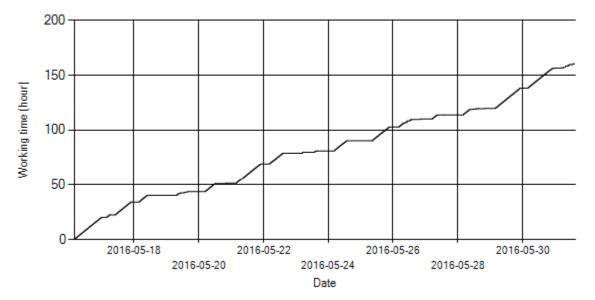
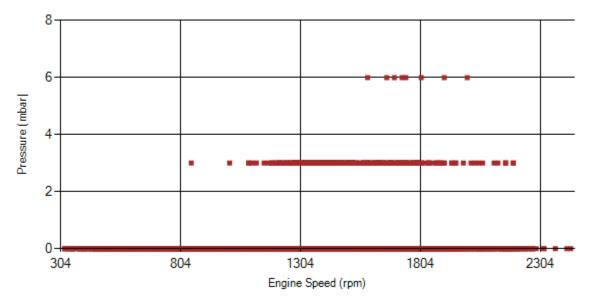


Figure 12- Time diagram for calculating CPK's working days

Notice: Data logger sampling time can be calculated from Figure 12. The lines parallel with Date axis show days without data logger data. As depicted in Figure 12

Pressure-Engine Speed diagrams







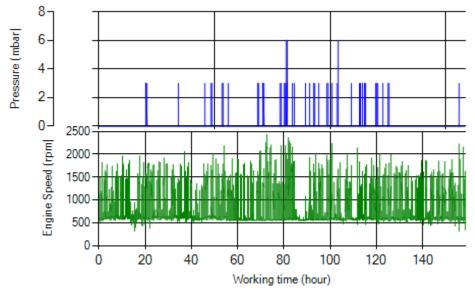
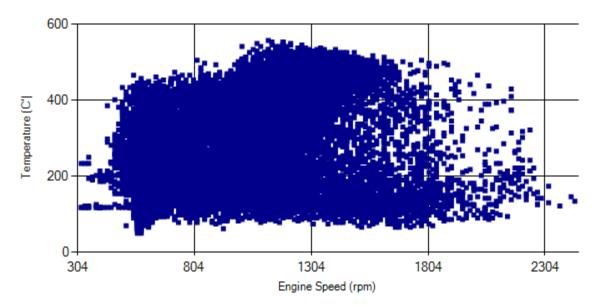


Figure 14- P, N distribution vs. working hours



Temperature-Engine Speed diagrams

Figure 15- Temperature against engine speed



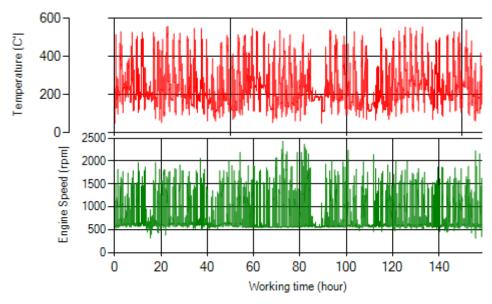


Figure 16- T, N distribution vs. working hours

Filter Operation Analysis

Note: Due to the problem in backpressure hosing system, and missing lots of data, reliable judgment could not be done.