

Overall Information

Table1- Overall Information		
Vehicle plate number	85476	
CPK data logger number	LN: 001508, DN: 2003, Sim +989218469624	
Busline	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	01/Mar/2016 – 15/Mar/2016 (fifteen days)	
K value - DPF upstream	1.90 [1/m]	
K value – DPF downstream	0.02 [1/m]	

Table 2- DPF Maintenance History

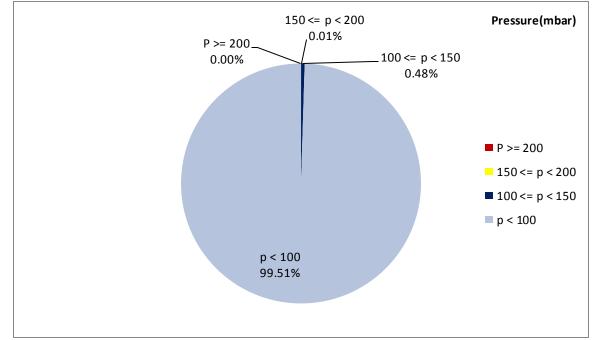
Filter maintenance date	DPF was cleaned on 22 nd Jul for the first time and on 15 th Dec for the second time after 44355 km mileage from installation date.
Dosing status	Dosing value has been kept constant from installation date until now.



Bus mileage (from DPF installation date)	55234 km
Bus mileage over the period	1118 km
Working days over the period	10 days
Stop days	5 days
Data logger working days	10 days
	124 hours 14 minutes
Working hours over the period	
Average working hours per day (including stop days)	8 hours 16 minutes
Bus average speed	9 km/hr
idle speed time to all working time ration	72.47 %
Total Bus fuel consumption over the period	704 lit
Fuel consumption per hour	5.7 lit/hr
Average fuel consumption	0.63 lit/km
Total Bus additive consumption over the period	0.33 lit
Average additive consumption	337 cc/km
Additive consumption to fuel ration	470 cc/1000lit

Table 3- Fuel and Additive Consumption Information





Temperature, Pressure and Engine Speed Overview

Figure 1- Pressure distribution over the working hours

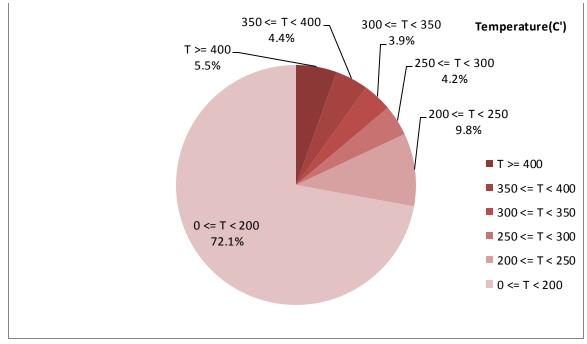


Figure 2-Temperature distribution over the working hours

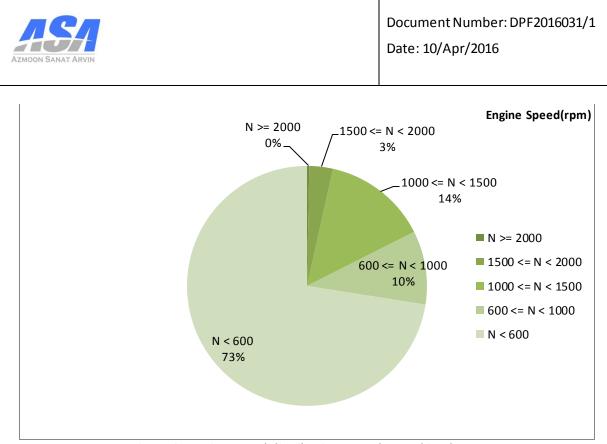


Figure 3- Engine speed distribution over the working hours

Table 4- Mean values

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
187.92	8.76	715

Table 5- Mean values without idling

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
270.09	23.27	1120

Table 6- Max-min values

Max-min temperature(C)	Max-min pressure (mbar)	Max-min engine speed(rpm)
566-50	165-0	2384-272



Detailed Pressure Analysis

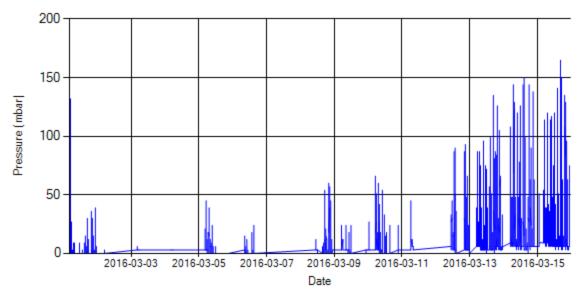


Figure 4- Pressure distribution over the period

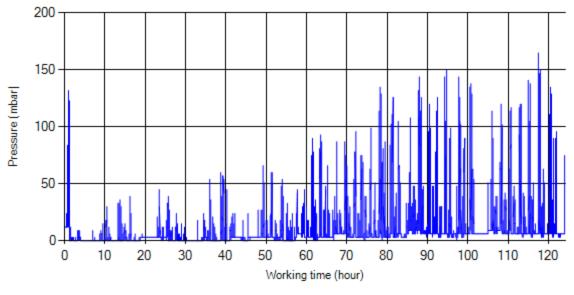


Figure 5- Pressure vs. working hours

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

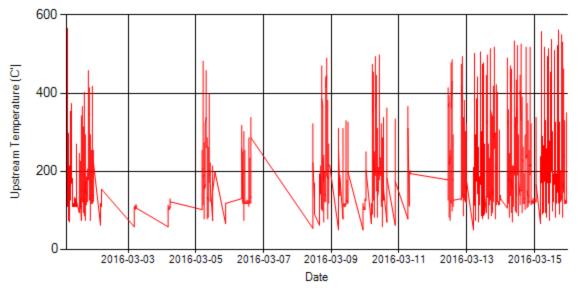


Figure 6- Temperature distribution over the period

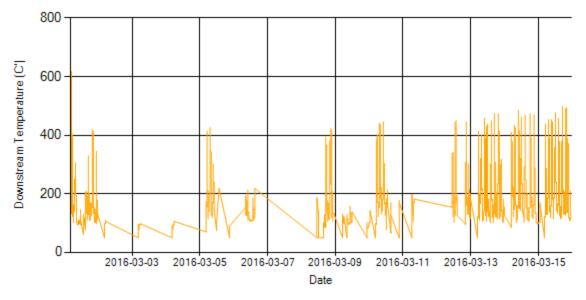
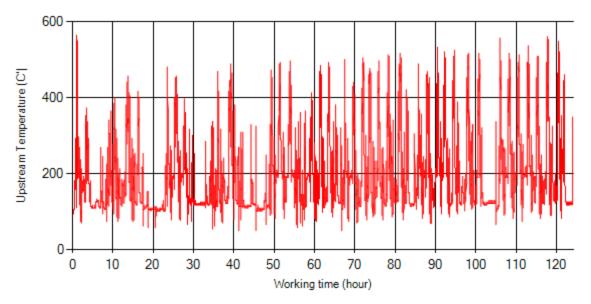


Figure 7- Temperature distribution over the period







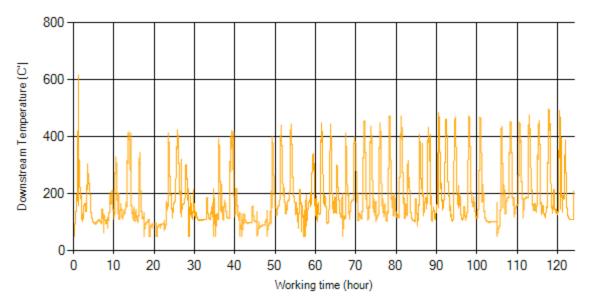


Figure 9- Temperature vs. working hours



Engine Speed Diagrams

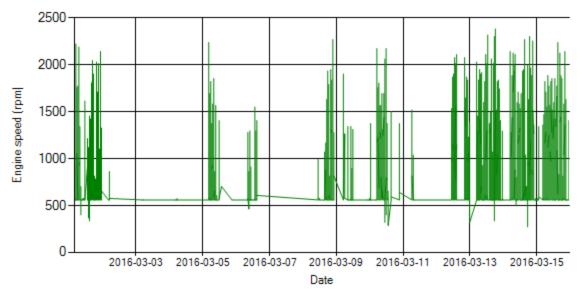


Figure 10- Engine speed distribution over the period

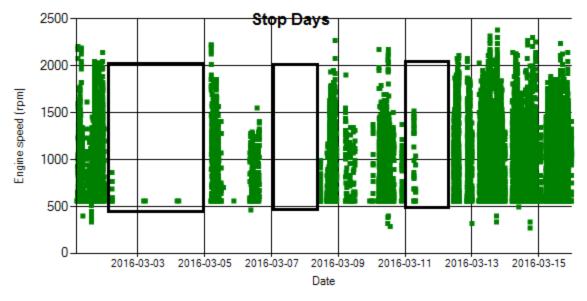


Figure 11- Engine speed diagram for calculating CPK's working days



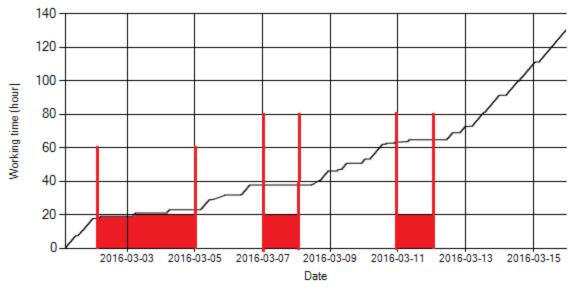
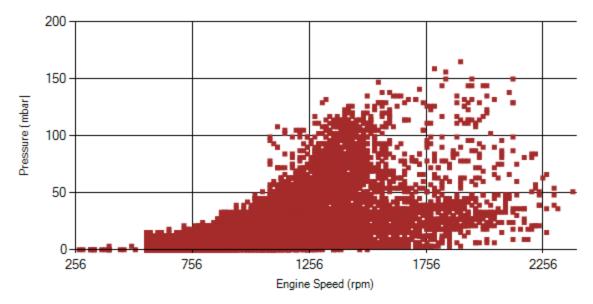


Figure 12- Time diagram for calculating CPK's working days

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









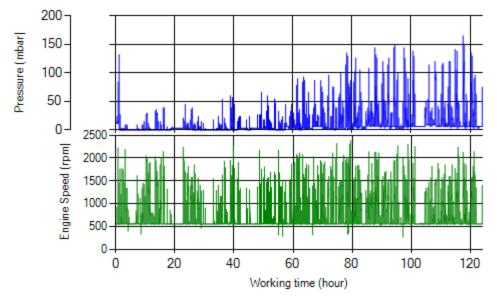


Figure 14- P, N distribution vs. working hours

Temperature-Engine Speed diagrams

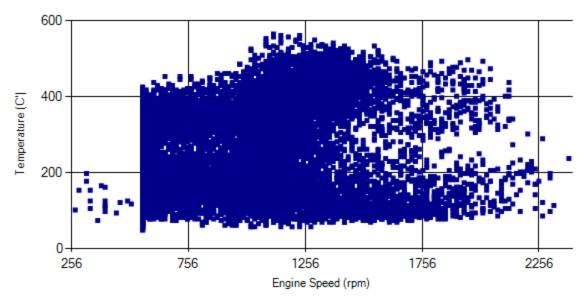


Figure 15- Temperature against engine speed



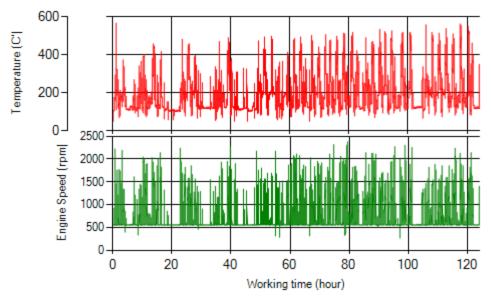


Figure 16- T, N distribution vs. working hours

Filter Operation Analysis

- As depicted in figure 1, only 0.01% of working time pressure was above 150 mbar.
- It can be obviously observed that 5.5% of total working-time temperature is above 400 °C and 9.9% above 350°C.

Filter operation status	Excellent	Good □
	Maintenance required	Failed□