

Overall Information

Table1- Overall Information		
Vehicle plate number	85182	
CPK data logger number	LN: 001502, DN: 1999	
Busline	Number 10 (south to north Bus line)	
Bus Terminals	Azadi square - Daneshgah square	
Total path distance	10.7 km	
DPF producer company	Tehag_01 (Catalyzed DPF)	
Installation date	24/Sep/2015	
Report period	16/Oct/2015 – 31/Oct/2015 (Sixteen days)	
K value - DPF upstream	1.86 [1/m]	
K value – DPF downstream	0.02 [1/m]	

Table 2- DPF Maintenance History

Filter maintenance date	Filter have been working from installation dat without any cleaning.	
Dosing status	This system doesn't use additive	

1	
4	

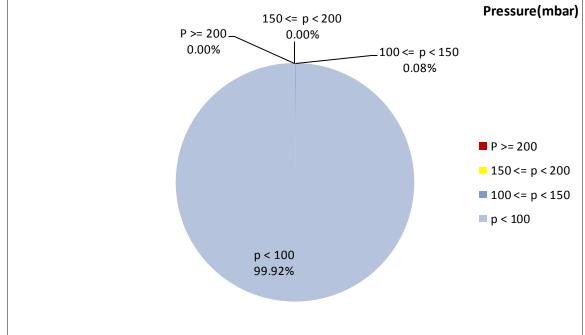


3771 km
2378 km
14 days
2 days
14 days
214 hours 2 minutes
13 hours 22 minutes
11.11 km/hr
61.99 %
1530 lit
7.15 lit/hr
0.64 lit/km
- lit
- cc/km
- cc/1000lit

Table 3- Fuel and Additive Consumption Information

Notice: This system doesn't use additive (CDPF).





Temperature, Pressure and Engine Speed Overview

Figure 1- Pressure distribution over the working hours

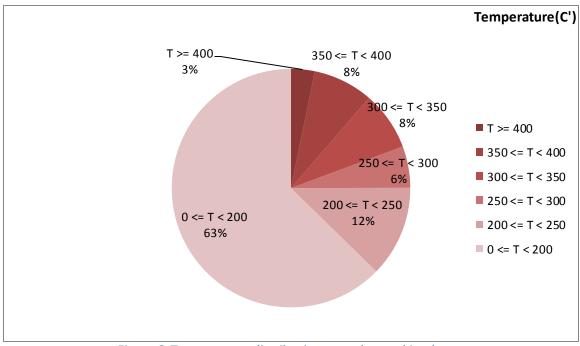


Figure 2-Temperature distribution over the working hours



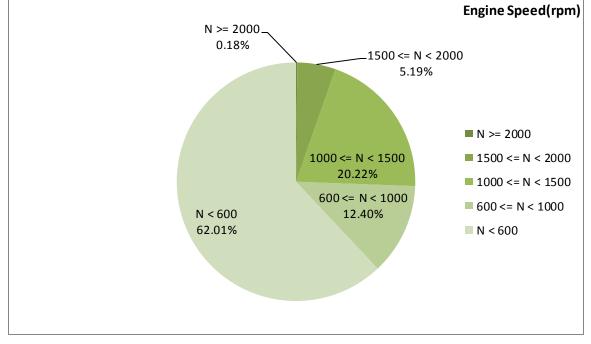


Figure 3- Engine speed distribution over the working hours

Table 4- Mean values

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
206.26	6.71	776

Table 5- Mean values without idling

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
255.75	17.39	1151

Table 6- Max-min values

Max-min temperature(C)	Max-min pressure (mbar)	Max-min engine speed(rpm)
470-50	119-0	2304-272



Detailed Pressure Analysis

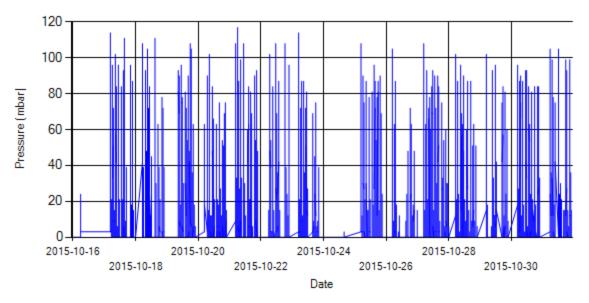
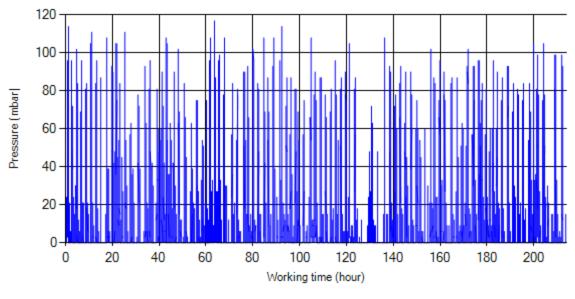


Figure 4- Pressure distribution over the period





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

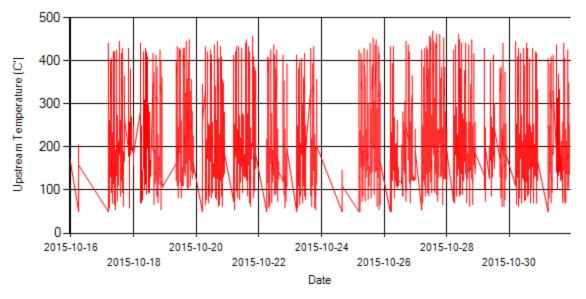


Figure 6- Temperature distribution over the period

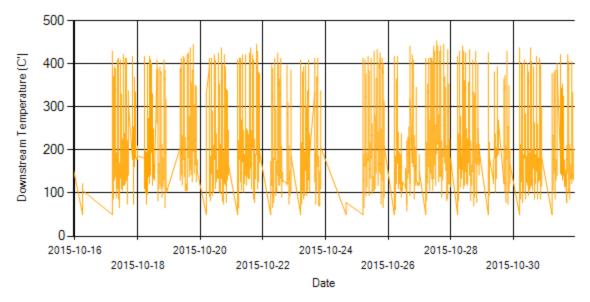


Figure 7- Temperature distribution over the period



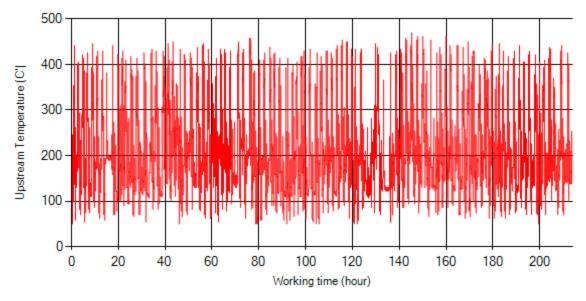


Figure 8- Temperature vs. working hours

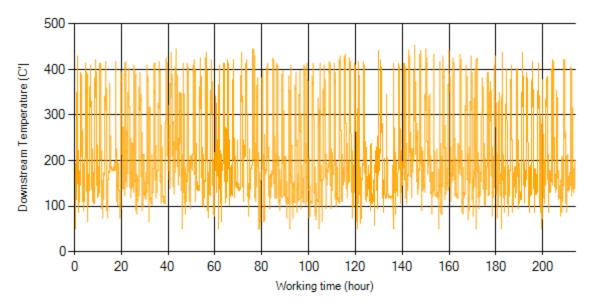


Figure 9- Temperature vs. working hours



Engine Speed Diagrams

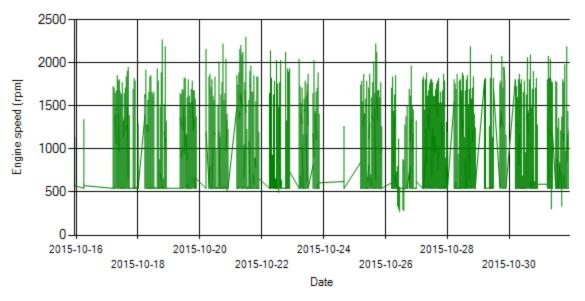


Figure 10- Engine speed distribution over the period

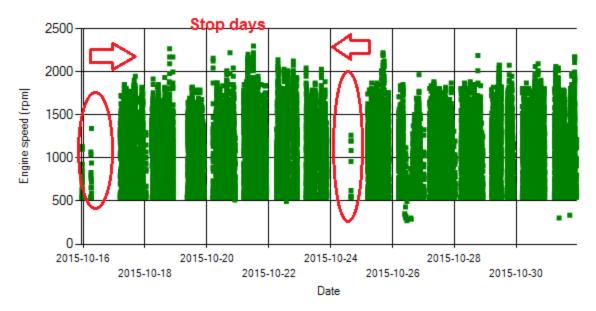


Figure 11- Engine speed diagram for calculating CPK's working days



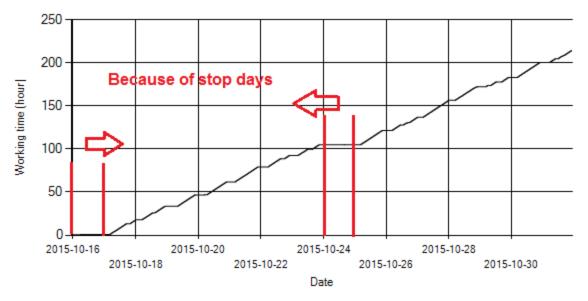
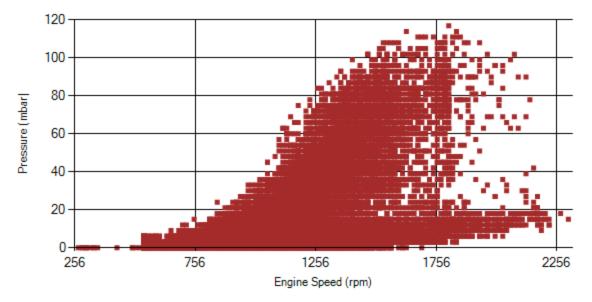


Figure 12- Time diagram for calculating CPK's working days

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









Document Number: DPF2015102/1

Date: 11/Nov/2015

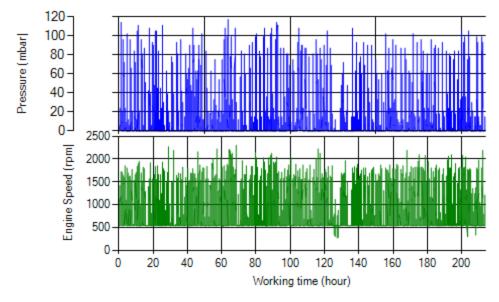
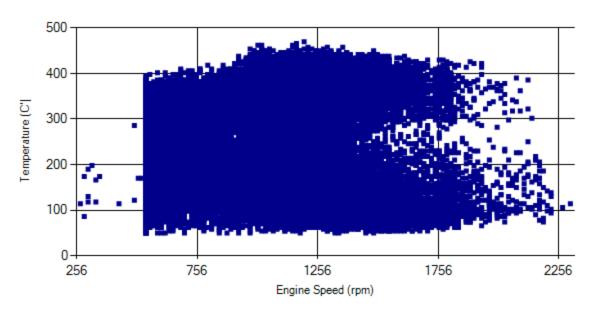


Figure 14- P, N distribution vs. working hours



Temperature-Engine Speed diagrams

Figure 15- Temperature against engine speed



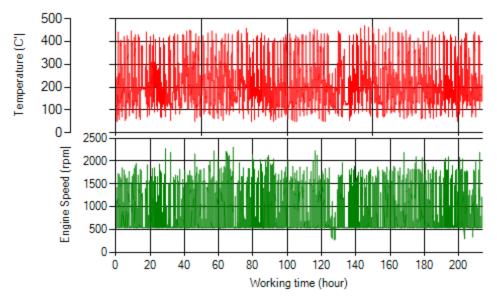


Figure 16- T, N distribution vs. working hours

Filter Operation Analysis

- As depicted in figure 1, only 0.08% of working time pressure was above 100 mbar during this period.
- Figure 2, 17 display flow temperature distribution for DPF's upstream. It can be obviously observed that 11% of total working-time temperature is above 350 °C and 24.5% above 250°C. Considering DPF company recommended operable situation (30% above 250°C), temperature profile distribution was relatively suitable for the DPF excellent operation.

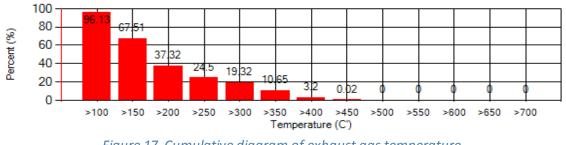


Figure 17. Cumulative diagram of exhaust gas temperature

