

Date: 21/Feb/2016

Overall Information

Table1- Overall Information

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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/Jan/2016 – 31/Jan/2016 (sixteen 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.



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Table 3- Fuel and Additive Consumption Information

Bus mileage (from DPF installation date)	50558 km
Bus mileage over the period	1163 km
Working days over the period	16 days
Stop days	3 days
	42.1
Data logger working days	13 days
Working hours over the period	190 hours 46 minutes
Working hours over the period	150 Hours 40 Hilliates
Average working hours per day (including stop days)	11 hours 55 minutes
The same person (the same group staye)	
Bus average speed	6.1 km/hr
idle speed time to all working time ration	72.1 %
Total Bus fuel consumption over the period	650 lit
	2.44 11.71
Fuel consumption per hour	3.41 lit/hr
Average fuel consumption	0.56 lit/km
Average ruer consumption	0.30 HQ KIII
Total Bus additive consumption over the period	0.32 lit
Total Basadative consumption over the period	0.02
Average additive consumption	275 cc/km
Additive consumption to fuel ration	492 cc/1000lit



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Temperature, Pressure and Engine Speed Overview

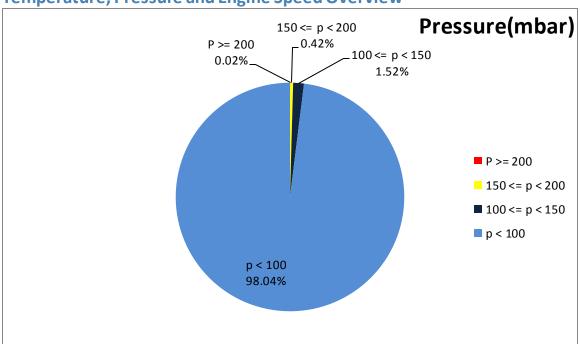


Figure 1- Pressure distribution over the working hours

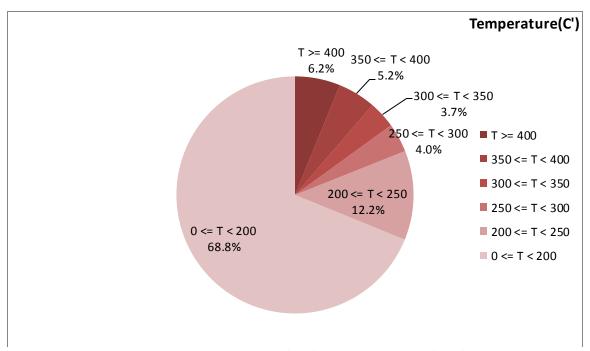


Figure 2-Temperature distribution over the working hours



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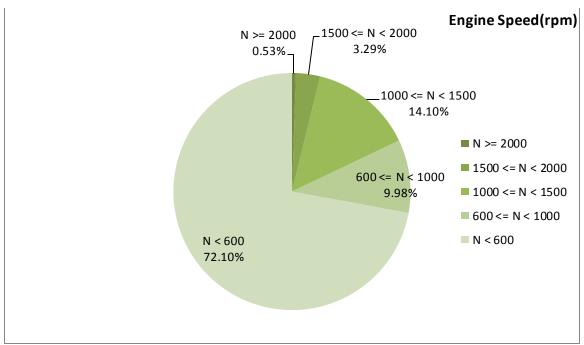


Figure 3- Engine speed distribution over the working hours

Table 4- Mean values

Mean temperature (C)	Mean pressure (mbar)	Mean engine speed(rpm)
194.92	16.41	721

Table 5- Mean values without idling

Mean temperature (C)	Mean pressure (mbar)	Mean engine speed(rpm)
280.75	37.96	1133

Table 6- Max-min values

Max-min temperature(C)	Max-min pressure (mbar)	Max-min engine speed(rpm)
586-50	237-0	2672-272



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Detailed Pressure Analysis

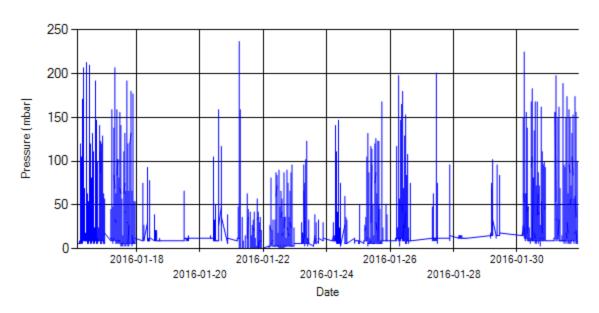


Figure 4- Pressure distribution over the period

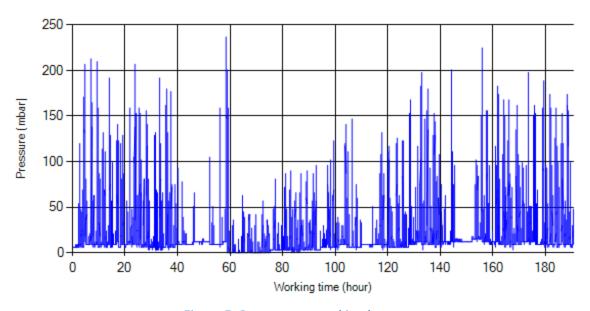


Figure 5- Pressure vs. working hours

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

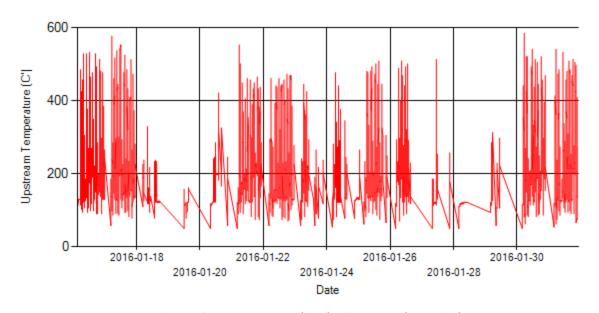


Figure 6- Temperature distribution over the period

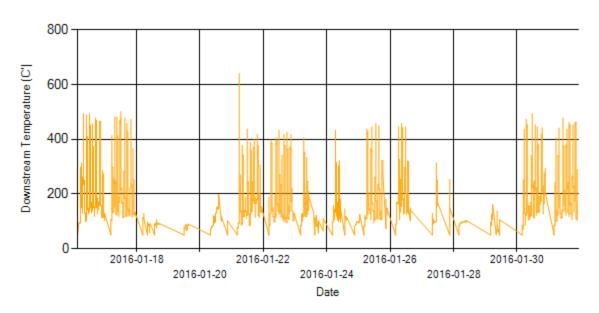


Figure 7- Temperature distribution over the period



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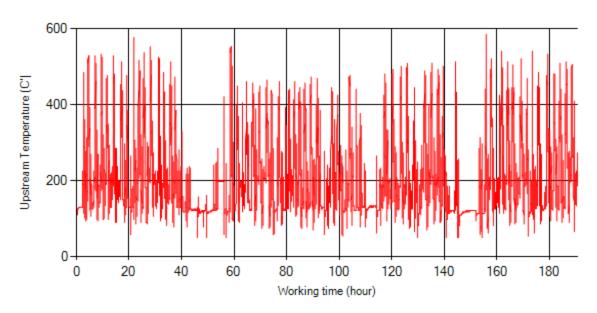


Figure 8- Temperature vs. working hours

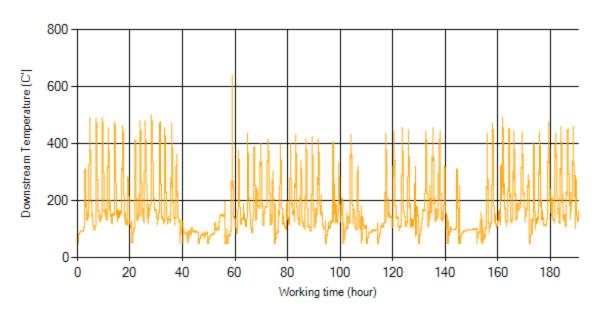


Figure 9- Temperature vs. working hours



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Engine Speed Diagrams

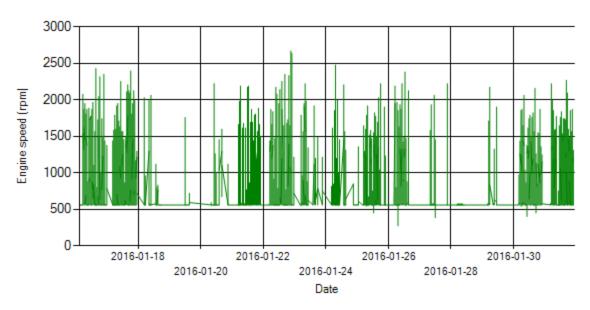


Figure 10- Engine speed distribution over the period

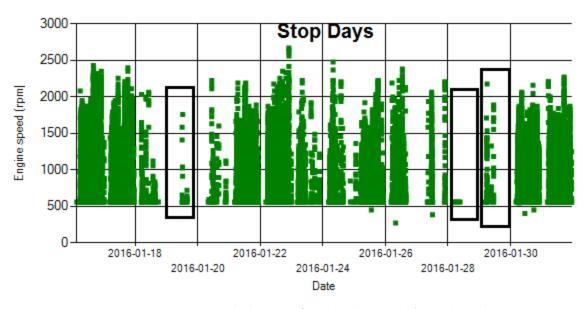


Figure 11- Engine speed diagram for calculating CPK's working days



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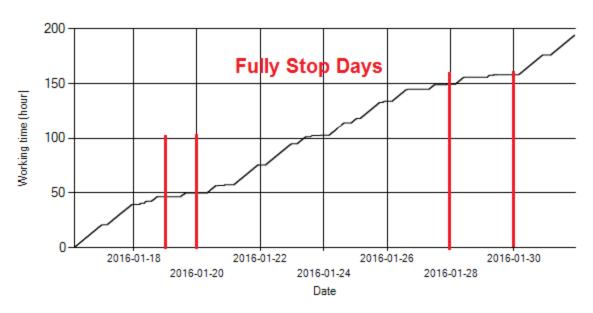


Figure 12- Time diagram for calculating CPK's working days

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

Pressure-Engine Speed diagrams

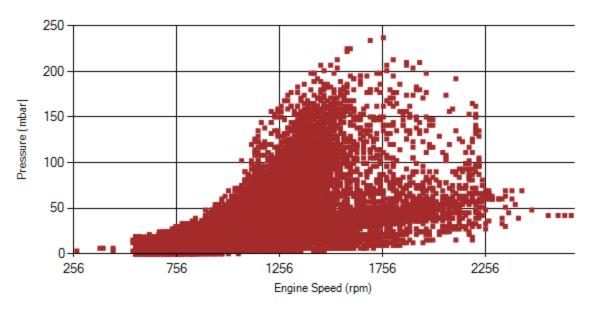


Figure 13- Pressure against engine speed



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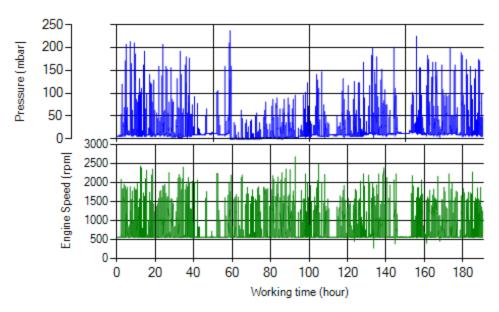


Figure 14- P, N distribution vs. working hours

Temperature-Engine Speed diagrams

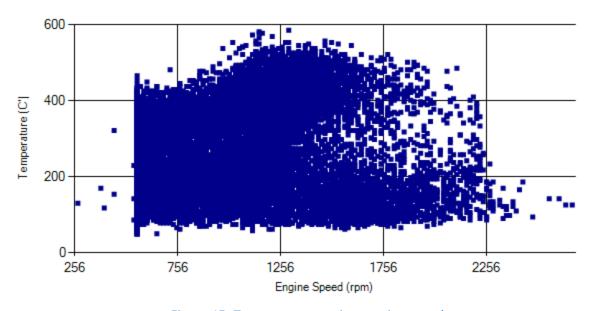


Figure 15- Temperature against engine speed



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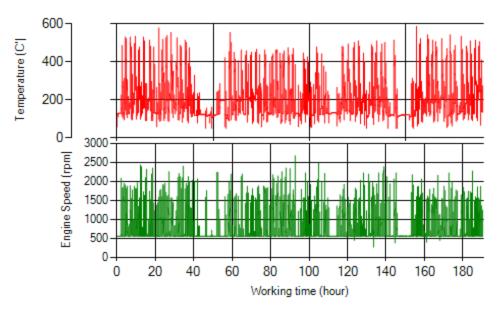


Figure 16- T, N distribution vs. working hours

Filter Operation Analysis

- As depicted in figure 1, only 0.02% of working time pressure was above 200 mbar and 0.44% above 150 mbar.
- It can be obviously observed that 6.2% of total working-time temperature is above 400 °C and 11.4% above 350°C.

Filter operation status	Excellent ■	Good □
	Maintenance required □	Failed□