

Date: 21/Feb/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	16/Jan/2016 – 31/Jan/2016 (sixteen days)	
K value - DPF upstream	- [1/m]	
K value – DPF downstream	- [1/m]	

Table 2- DPF Maintenance History

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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

2330 km
15 days
1 day
15 days
242 hours 30 minutes
15 hours 9 minutes
9.60 km/hr
57.99 %
1600 lit
6.60 lit/hr
0.69 lit/km



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Temperature, Pressure and Engine Speed Overview

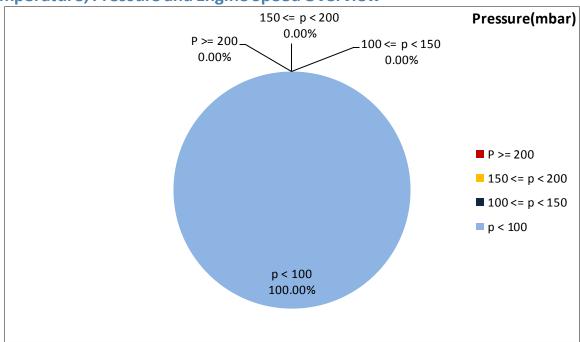


Figure 1- Pressure distribution over the working hours

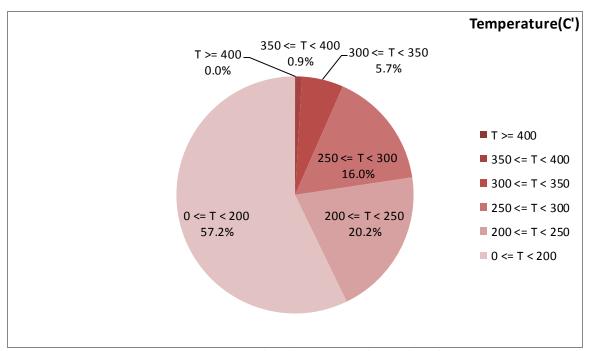


Figure 2-Temperature distribution over the working hours



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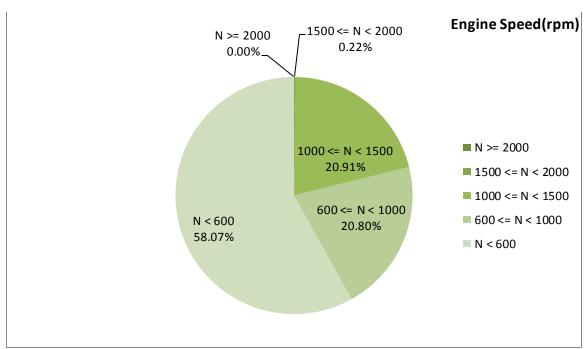


Figure 3- Engine speed distribution over the working hours

Table 4- Mean values

Mean temperature (C)	Mean pressure (mbar)	Mean engine speed(rpm)
190.48	0.87	725

Table 5- Mean values without idling

Mean temperature (C)	Mean pressure (mbar)	Mean engine speed(rpm)
250.69	2.07	973

Table 6- Max-min values

Max-min temperature(C)	Max-min pressure (mbar)	Max-min engine speed (rpm)
410-50	78-0	2096-256



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Detailed Pressure Analysis

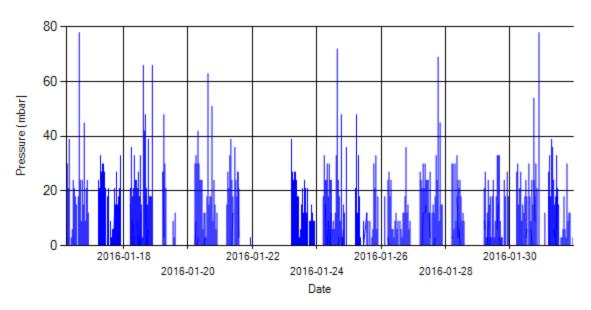


Figure 4- Pressure distribution over the period

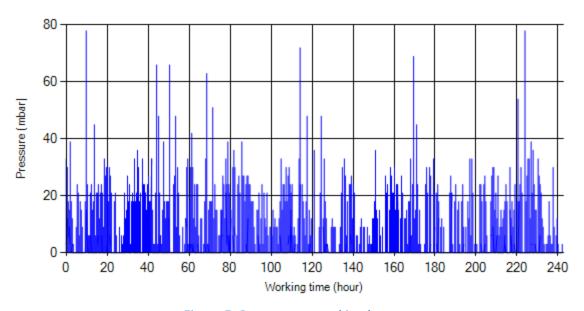


Figure 5- Pressure vs. working hours

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

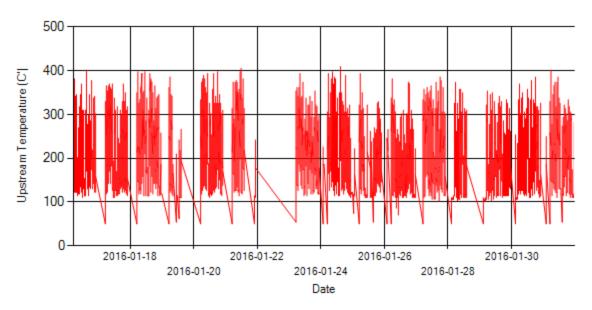


Figure 6- Temperature distribution over the period

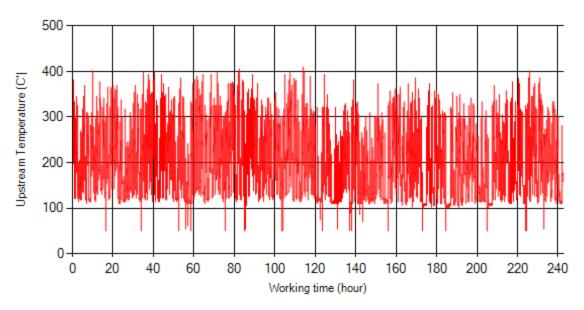


Figure 7- Temperature vs. working hours



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Engine Speed Diagrams

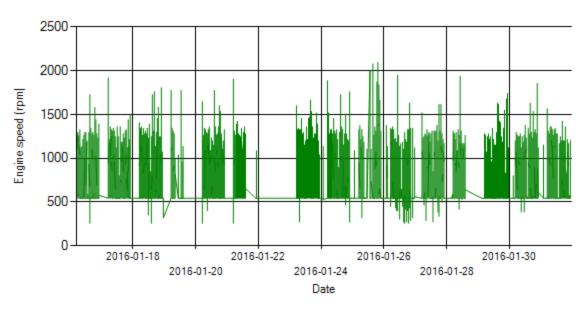


Figure 8- Engine speed distribution over the period

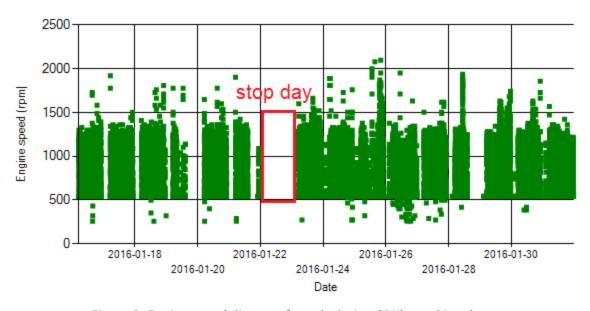


Figure 9- Engine speed diagram for calculating CPK's working days



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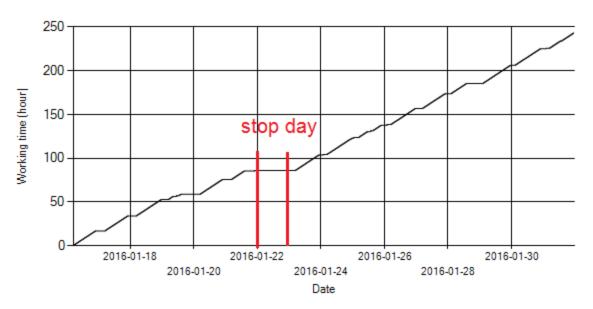


Figure 10- Time diagram for calculating CPK's working days

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

Pressure-Engine Speed diagrams

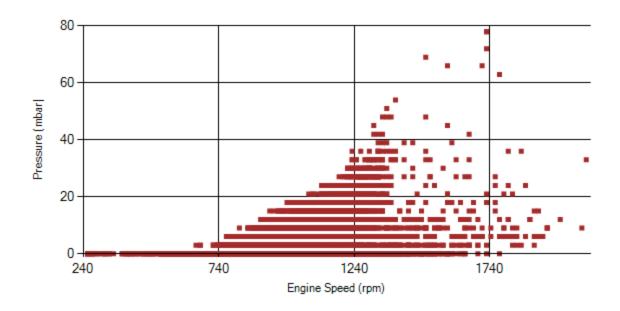


Figure 11- Pressure against engine speed



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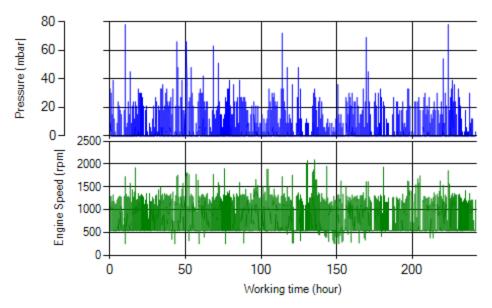


Figure 12- P, N distribution vs. working hours

Temperature-Engine Speed diagrams

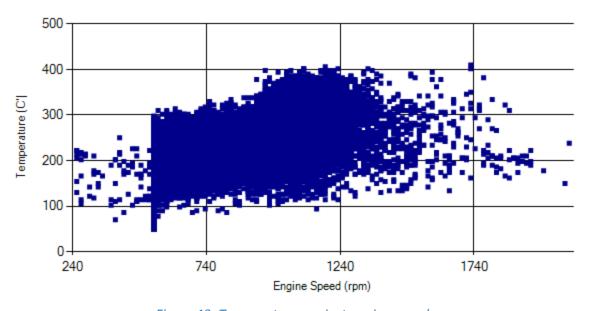


Figure 13- Temperature against engine speed



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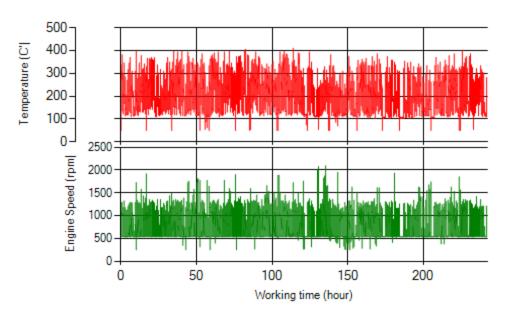


Figure 14- T, N distribution vs. working hours

Filter Operation Analysis

Notice: System was working over this period without DPF.