



Repair Order Detail

RO:

RO07-0345639

Status:

CLOSED

Repair Class:

SCHEDULED

Shop:

SAL

SALINA SHOP

Repair Site:

FACILITY

Unit:

B1422

PETERBILT 579 14X+ X15E BENDIX AIRTRAC

Opened:

9/12/2024

Customer PO #:

Completed:

10/9/2024

Domicile:

SAL

Make:

PTRBL

Odometer:

327,217

Cost Cntr:

105

Model:

579

License:

Z085450

Year:

2023

VIN:

1XPBD49XPD854169

In Service:

8/18/2022

Section: 1	Priority: 5	Complaint: CKENG	Rep Reason: DRIVERREPORT
Component: 043-006		Cmp Descrip: Exhaust After-treatment Devices	
War Type: EXTENDED		Unit War: None	
Comments: check engine light on for dpf codes			

Comment							
Date	Comment Text						



Repair Order Detail

9/13/2024	LEW900-Unit B1422 came into the shop with the complaint of a check engine light and frequent regens. Hooked up PC and found codes 2692, 2639, 3321, 6784, 1981, 3235, 3165, and 5383. Pulled truck outside and started a regen. Monitored temps and pressures. EGR Differential Pressure, EGR Valve Position, Exhaust Gas Pressure, Intake Manifold Pressure, Percent Load, Turbocharger Actuator Position Measured, and Turbocharger Speed are all in spec. I did notice that DPF Inlet and DPF Outlet temps where climbing together like a possible breached filter but then stopped. I stopped regen and looked at history, found that regens have been happening frequently (around 20-30 hours). Soot load at 0.87 and ash load percent at 100%. Performed IPT and Air Handling Performance Test, both tests passed. Pulled up IPT results and looked over, and found that #1- and #4-cylinders fueling rate was higher than the others but still in spec. Reset filter life and cleared codes. Took truck on 5-mile test drive and CEL came back on. Pulled truck back into shop and hooked up PC, found codes 1921 and 1922. Followed T/S for fault 1922 which is primary fault. Read through TSB's which is not the solution. Checked intake air filter, good. Checked DPF Differential pressure sensor tube and found them to be clear. Checked Differential pressure sensor voltage reading and found them to be in spec. Removed sidestep and DPF from Aftertreatment and found that DPF and Decom mixing chamber are both melted. Performed snap test and found that black and grey smoke is present with the smell of fuel. Called into Cummins to start claim since EDS is decommissioned. Cummins started a service request. Service Request #03181127. I sent all info to Cummins and performed a data extraction. Cummins advised me to check intake system, good. Check fuel system, good. Check air handling components, good. I still need to check engine base timing. If all steps are completed with no issues found, I was advised to replace injectors after getting authorization. I received a call from Jake Wardle who is the Field Service Engineering Team Leader. He informed me that he was taking over the case since he is working with our fleet for related issues. Removed air cleaner, cross over pipe, and valve cover. Removed					
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Labor							
Date	Mechanic	Description			Hours	Rate	Total
9/12/2024	LEW900	LEW900 - Emission Controls			2.77	85.00	235.17
9/12/2024	JEN520	JEN520 - Emission Controls			2.78	85.00	236.58
9/12/2024	LEW900	LEW900 - Emission Controls			1.03	85.00	87.83
9/12/2024	JEN520	JEN520 - Emission Controls			1.33	85.00	113.33
9/12/2024	JEN520	JEN520 - Emission Controls			1.45	85.00	123.25
9/13/2024	LEW900	LEW900 - Emission Controls			2.25	85.00	191.25
9/17/2024	JEN520	JEN520 - Exhaust After-treatment Devices			3.27	85.00	277.67
9/18/2024	JEN520	JEN520 - Exhaust After-treatment Devices			0.87	85.00	73.67
9/18/2024	JEN520	JEN520 - Exhaust After-treatment Devices			0.47	85.00	39.67
9/18/2024	JEN520	JEN520 - Exhaust After-treatment Devices			6.73	85.00	572.33
9/18/2024	LEW900	LEW900 - Exhaust After-treatment			1.30	85.00	110.50
9/19/2024	JEN520	JEN520 - Exhaust After-treatment Devices			1.42	85.00	120.42
9/20/2024	JEN520	JEN520 - Exhaust After-treatment Devices			0.10	85.00	8.50
9/20/2024	JEN520	JEN520 - Exhaust After-treatment Devices			3.00	85.00	255.00
10/1/2024	LEW900	LEW900 - Exhaust After-treatment			0.37	85.00	31.17

Part							
Date	Part ID	Description	After		Qty	Unit Price	Total
9/12/2024	5633757CUM	Filter - Diesel Particulate Assy DPF	Before		1.00	2636.64	2,636.64
9/18/2024	5508583RXCUM	Injector - Doser Valve			1.00	603.20	603.20
9/18/2024	2011939PE	Clamp - V-Band, DPF Exhaust After-			1.00	95.60	95.60
9/18/2024	2188190PE	Gasket - DPF Exhaust After-treatment			1.00	69.75	69.75

Task Details



Repair Order Detail

Section: 2	Priority: 5	Complaint: CKENG	Rep Reason: INSPECTION
Component: 043-001		Cmp Descrip: Emission Controls	
War Type: EXTENDED		Unit War: None	
Comments: parts to be billed			

Part							
Date	Part ID	Description	After		Qty	Unit Price	Total
9/18/2024	3104230	Gasket - Adapter, Egr Cooler			1.00	36.84	36.84

Task Details

Section: 3	Priority: 5	Complaint: CKENG	Rep Reason: INSPECTION
Component: 043-002		Cmp Descrip: Exhaust Manifold	
War Type: EXTENDED		Unit War: None	
Comments: parts bill			

Part							
Date	Part ID	Description	After		Qty	Unit Price	Total
9/18/2024	4965512	Sleeve - Exhaust Manifold			5.00	13.55	67.75
9/18/2024	4965512	Sleeve - Exhaust Manifold			1.00	11.09	11.09
9/18/2024	4965512	Sleeve - Exhaust Manifold			6.00	10.30	61.80
9/18/2024	5486657	Gasket Exhaust Manifold			4.00	17.03	68.12
9/18/2024	3682940	Gasket - Exhaust Manifold Center			1.00	19.27	19.27
9/18/2024	4965698	Bolt - Exhaust Manifold			11.00	6.70	73.70
9/18/2024	4965698	Bolt - Exhaust Manifold			1.00	6.78	6.78

Task Details

Section: 4	Priority: 5	Complaint: CKENG	Rep Reason: INSPECTION
Component: 043-003		Cmp Descrip: Muffler	
War Type: EXTENDED		Unit War: None	
Comments: parts only			

Part							
Date	Part ID	Description	After		Qty	Unit Price	Total
9/18/2024	4966441	Gasket - Muffler Outlet To Exhaust Pipe			1.00	17.23	17.23
9/18/2024	B500	Clamp - Exhaust System 5 Inch Band			1.00	11.03	11.03

Task Details

Section: 5	Priority: 5	Complaint: CKENG	Rep Reason: INSPECTION
Component: 043-004		Cmp Descrip: Turbocharger	
War Type: EXTENDED		Unit War: None	
Comments: parts only			

Part							
Date	Part ID	Description	After		Qty	Unit Price	Total
9/18/2024	3683144	Clamp - V-band			1.00	53.04	53.04
9/18/2024	4298975	Nut - Mounting Studs, Turbocharger			4.00	8.48	33.92
9/18/2024	3695041	Mounting Gasket - Turbocharger			1.00	13.29	13.29
9/18/2024	5264570	Gasket - Turbo Oil Drain Tube			1.00	3.23	3.23

Task Details



Repair Order Detail

Section: 6	Priority: 5	Complaint: BROKEN	Rep Reason: INSPECTION
Component: 053-007		Cmp Descrip: Hardware - Expendable Items	
War Type: NO WARRANTY		Unit War: None	
Comments: parts only			

Comment							
Date	Comment Text						
9/18/2024	Studs were not needed after all. CZ3.						

Task Details

Section: 7	Priority: 5	Complaint: CKENG	Rep Reason: INSPECTION
Component: 044-014		Cmp Descrip: Injectors - Electronic	
War Type: EXTENDED		Unit War: None	
Comments: replace injectors			

Part							
Date	Part ID	Description	After		Qty	Unit Price	Total
9/18/2024	6513589PXCUM	Kit, X15 Injector			6.00	1657.76	9,946.56

Task Details

Totals Repair Order RO07-0345639	
US\$ - United States Dollars	
Total Parts Issued:	49.00
Total Labor Hours:	29.13
Total Part Charges:	13,828.84
Total Labor Charges:	2,476.34
Total Tax Charges:	0.00
Total Fee Charges:	0.00
Total Service Charges:	0.00
Repair Total:	16,305.18



Cost For Each Line Type

LABOR	2,476.34
PART	13,828.84

