

WINDREM



Work Order

Vehicle Code: 105

Year: 2017
 Make: WESTERN STAR
 Model: 4900
 License No: BL 94788
 VIN #: 5KJJALD16HPJC3759
 Meter: 1: 1202579 2: 0
 Meter Type: Kilom Hours
 Transmission:
 Engine: Detroit DD16
 Engine Serial #:

Alt. Vehicle ID:
 WO Type:
 Est. Downtime:
 Hour Estimate:
 Reference No:
 Requested By:
 Reason:
 Delay Code:

Work Order #: 31200
 Issued: 2024-07-11 8:06 AM
 Status: Completed
 Date: 2024-08-20
 Employee:
 Name:
 Page #: 1

Vendor: LIFT
 Name: LIFTLOCK CITY FREIG
 Address: 728 RYE ST
 City/State: PETERBOROUGH ON

Work Order Notes:
 TOW CALL & SERVICE

DATE COMPLETED

RELEASED BY - (SIGNATURE REQUIRED)

REPAIR:

EGR CODES FOUND ACTIVE EGR/INTAKE/DPF CODES
 FOUND INTAKE PRESSURE/TEMP SENSOR STUCK IN RANGE & EGR DELYA SENSOR CAKED WITH SOOT
 REPLACED INTAKE SENSOR & BLOW OUT DELTA P PORTS INSPECT AND FOUND ATD FACE PLUGGED - INLET
 PRESSURE@ 4.5 PSI
 COMPLETE FACE CLEANING PROCEDURE & MONITOR - ALL CODES WENT INACTIVE EXCEPT EGR & INTAKE CODES
 ROAD TESTED AND MONITORED EGR, DPF & SCR VALUES - FOUND DPF IN RANGE BUT AT HIGH END OF FACE CLEAN
 NOX CONVERSION DROPS OFF AND BECOMES VERY ERRATIC AS SOON AS FUEL AND DEF ARE BEING DOSED INTO
 SYSTEM
 RAN NOX SYSTEM VERIFICATION TO TEST SENSORS-OK. AS TEMPS RISE DPF ABD SCR PERFORMANCE DROP TO
 ALMOST NONE - NEEDS 1 BOX AND DPFs
 REMOVED ATD AND DISASSEMBLED. ASSEMBLE NEW BOX AND INSTALLED. RESET ACM AND PUT OUT TO MONITOR.
 EFF @ 98% @ 1000 DEGREES

NOTE:

ALL INACTIVE CODES WERE CLEARED BEFORE TRUCK GOT TO OUR YARD - LEADING US IN THE WRONG DIRECTION
 ON PRIOR DIAG.
 BAD CORE INVOICE RECEIVED OCT 2 IM46233

Services Performed

Service Code	Description	Technician	Actual Hours	Hours	Cost
5036	ENGINE- DEF/ DPF			1.00	\$0.00
	COMMENT				
Total Service				1.00	\$0.00

Parts Used

Part Number	Part Description	Service Code	Quantity	Cost (each)	Total
OUTSIDE SERVICE	TOW, 1 BOX & DPF REPLACEMENT	5036	1.00	\$19,434.71	\$19,434.71
MISC	BAD DPF CORES	5036	1.00	\$820.00	\$820.00
Total Parts					\$20,254.71
Total Parts and Service					\$20,254.71

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Vehicle Code: 105

Year: 2017
 Make: WESTERN STAR
 Model: 4900
 License No: BL 94788
 VIN #: 5KJJALD16HPJC3759
 Meter: 1: 1266130 2: 0
 Meter Type: Kilom Hours
 Transmission: Detroit DD16
 Engine: Detroit DD16
 Engine Serial #:

Alt. Vehicle ID:
 WO Type:
 Est. Downtime:
 Hour Estimate:
 Reference No:
 Requested By:
 Reason:
 Delay Code:



Work Order

Work Order #: 31733
 Issued: 2024-12-13 11:19 AM
 Status: Completed
 Date: 2024-12-13
 Employee: ZACK
 Name: MARREN
 Page #: 1

Work Order Notes:
 EGR ACTUATOR VALVE - REPLACED
 ADD 35 LITRES OF COOLANT

DATE COMPLETED

RELEASED BY - (SIGNATURE REQUIRED)

Services Performed

Service Code	Description	Technician	Actual Hours	Hours	Cost
5020	ENGINE - EXHAUST EGR ACT	TIM		1.50	\$75.00
	COMMENT				
Total Service				1.50	\$75.00

Parts Used

Part Number	Part Description	Service Code	Quantity	Cost (each)	Total
DDE.EA4711502794	ACTUATOR, EGR VALVE	5020	1.00	\$931.34	\$931.34
13ELC5B	ANTIFREEZE, BULK	5014	30.00	\$2.69	\$80.70
Total Parts					\$1,012.04
Total Parts and Service					\$1,087.04

WINDREM



Work Order

Vehicle Code: 105

Work Order #: 32125
 Issued: 2025-01-08 11:04 AM
 Status: Completed
 Date: 2025-01-08
 Employee: CODY
 Name: FRY
 Page #: 1

Year: 2017
 Make: WESTERN STAR
 Model: 4900
 License No: BL 94788
 VIN #: 5KJJALD16HPJC3759
 Meter: 1: 1271531 2: 0
 Meter Type: Kilom Hours
 Transmission:
 Engine: Detroit DD16
 Engine Serial #:

Alt. Vehicle ID:
 WO Type:
 Est. Downtime:
 Hour Estimate:
 Reference No:
 Requested By:
 Reason:
 Delay Code:

Work Order Notes:
 - Replaced starter
 - Replaced DEF pump
 - Replaced exhaust clamp

DATE COMPLETED

RELEASED BY - (SIGNATURE REQUIRED)

Services Performed

Service Code	Description	Technician	Actual Hours	Hours	Cost
5023	ENGINE - EXHAUST CLAMP	CODY		3.00	\$0.00
	COMMENT				
4002	ELEC - STARTER	CODY		3.00	\$0.00
	COMMENT				
Total Service				6.00	\$0.00

Parts Used

Part Number	Part Description	Service Code	Quantity	Cost (each)	Total
FLTEC50PLA	5.0 EXH CLAMP	5023	1.00	\$16.31	\$16.31
DDE.EA0011400678	DEF PUMP	5023	1.00	\$974.92	\$974.92
DR8200434	STARTER	4002	1.00	\$570.70	\$570.70
Total Parts					\$1,561.93
Total Parts and Service					\$1,561.93

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Work Order

Vehicle Code: 105

Year: 2017
 Make: WESTERN STAR
 Model: 4900
 License No: BL 94788
 VIN #: 5KJJALD16HPJC3759
 Meter: 1: 837777 2: 0
 Meter Type: Kilom Hours
 Transmission:
 Engine: Detroit DD16
 Engine Serial #:

Alt. Vehicle ID:
 WO Type:
 Est. Downtime:
 Hour Estimate:
 Reference No:
 Requested By:
 Reason:
 Delay Code:

Work Order #: 30628
 Issued: 2024-05-16 11:09 AM
 Status: Completed
 Date: 2024-05-16
 Employee:
 Name:
 Page #: 1

Vendor: HAR
 Name: HARRISON TRUCK RE
 Address: 188 BETHEL RD
 City/State: OMEMEE ON

Work Order Notes:

DATE COMPLETED

RELEASED BY - (SIGNATURE REQUIRED)

repair:
 Engine / Overhaul / -Remove valve cover and oil pan for inspection of engine component
 Drain oil and remove pan and oil pump / suction manifold. Replace and reseal suction manifold as they're known for fracturing. Replace all 7 upper and lower main bearing and torque to specification. Replaced all conn rod bearing and torque to spec with new bolts. Reinstall pump assembly and oil pan. Heavy pitting in front cover, sliconed . (took pics) Fill with oil and change filter.
 Remove air piping and valve cover. set valves. All exh and int valves were tight. Intake valves were leaning an the cam (no lash). Didn't see any noticeable cam wear. Set all jake brakes as well. reinstall valve cover. Plastic coolant line fitting broke on reassembly, replaced

Services Performed

Service Code	Description	Technician	Actual Hours	Hours	Cost
5033	ENGINE - OVERHAUL			1.00	\$0.00
	COMMENT				
5032	ENGINE - OIL FILTER			1.00	\$0.00
	COMMENT				
0014	OIL CHANGE			1.00	\$0.00
	COMMENT				
Total Service				3.00	\$0.00

Parts Used

Part Number	Part Description	Service Code	Quantity	Cost (each)	Total
OUTSIDE SERVICE	ENGINE OVERHAUL	5033	1.00	\$5,453.30	\$5,453.30
Total Parts					\$5,453.30
Total Parts and Service					\$5,453.30

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Work Order

Vehicle Code: 105

Year: 2017
 Make: WESTERN STAR
 Model: 4900
 License No: BL 94788
 VIN #: 5KJJALD16HPJC3759
 Meter: 1: 1340035 2: 0
 Meter Type: Kilom Hours
 Transmission:
 Engine: Detroit DD16
 Engine Serial #:

Alt. Vehicle ID:
 WO Type:
 Est. Downtime:
 Hour Estimate:
 Reference No:
 Requested By:
 Reason:
 Delay Code:

Work Order #: 32790
 Issued: 2025-06-26 9:03 AM
 Status: Completed
 Date: 2025-07-07
 Employee: CODY
 Name: FRY
 Page #: 1

Work Order Notes:

- No power/ stop engine light
- Coolant in exhaust
- Primary turbo pushing oil
- EGR cooler leaking
- Possible injector cups leaking
- Removed exhaust manifold, cylinders 3,6 wet with coolant
- Replaced injector cups and o rings
- Replaced primary turbo
- Replaced EGR cooler
- Replaced pigtail for inlet turbo temp sensor

DATE COMPLETED

RELEASED BY - (SIGNATURE REQUIRED)

Services Performed

Service Code	Description	Technician CODY	Actual Hours	Hours	Cost
5038	ENGINE - COOLANT LEAK	CODY		8.00	\$0.00
	COMMENT				
5024AF	ENGINE - AIR FILT	CODY		5.00	\$0.00
	COMMENT				
4099	ENGINE - WARNING LIGHT	CODY		3.00	\$0.00
	COMMENT				
5007	ENGINE - FUEL INJECTOR	CODY		9.00	\$0.00
	COMMENT				
0100	MISC REPAIRS	CODY		5.00	\$0.00
	COMMENT				
Total Service				30.00	\$0.00

Parts Used

Part Number	Part Description	Service Code	Quantity	Cost (each)	Total
3557858c1	TURBO BOOT CLAMP	5015C	2.00	\$59.99	\$119.98
fk13850NN	FILTER,FUEL,KIT	5008	1.00	\$97.55	\$97.55
75190	SHOP TOWELS	5008	1.00	\$19.99	\$19.99
DDE.EA4730962099	TURBO	5008	1.00	\$4,044.42	\$4,044.42
DDE.A0219901101	BOLT,MOUNTING, TURBO	5008	4.00	\$13.14	\$52.56
DDE.A002905054	MOUNTING NUT	5008	4.00	\$6.27	\$25.08

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Work Order

Vehicle Code: 105

Work Order #: 32790
 Issued: 2025-06-26 9:03 AM
 Status: Completed
 Date: 2025-07-07
 Employee: CODY
 Name: FRY
 Page #: 2

Year:	2017	Alt. Vehicle ID:	
Make:	WESTERN STAR	WO Type:	
Model:	4900	Est. Downtime:	
License No:	BL 94788	Hour Estimate:	
VIN #:	5KJJALD16HPJC3759	Reference No:	
Meter:	1: 1340035 2: 0	Requested By:	
Meter Type:	Kilom Hours	Reason:	
Transmission:		Delay Code:	
Engine:	Detroit DD16		
Engine Serial #:			

			RELEASED BY - (SIGNATURE REQUIRED)	
DDE.A4730960480	METAL SEAL	5008		\$54.14
DDE.A0219900001	HEX SCREW	5008		\$139.08
DDE.A4721420853	SLEEVE EXHAUST MAN	5008		\$21.48
DDE.A4721421880	GASKET EXHAUST MANIFOLD	0120		\$130.00
DDE.A4721421980	GASKET EXHAUST MANIFOLD	0120		\$130.00
DDE.A4701870480	GASKET TURBO CHARGE	0120		\$2.64
DDE.N000000001069	SEALING RING,TURBO	5019		\$1.64
DDE.A4731400575	EGR COOLER	5019		\$2,311.58
DDE.A4600700987	O RING, FUEL INJ KIT	5019		\$325.02
DDE.A0001505536	CONNECTOR	5019		\$9.83
DDE.A4721421180	SEAL,EGR	5019		\$8.65
DDE.A0019950502	CLAMP,PIPE	5020		\$33.25
621248	O RING	5020		\$7.08
240-1041	INJECTOR TUBE	5020		\$26.67
PAC.15324973.B	SEAL-CABLE	5020		\$0.16
PAC.15324973.B	SEAL-CABLE	5020		\$0.16
PAC.15304719.L	TERM FEM	5020		\$0.31
DDE.A4600700987	O RING, FUEL INJ KIT	5020		\$325.02
3558834C2	TURBO BOOT HOSE	5020		\$92.84
3558834C2	TURBO BOOT HOSE	5020		\$92.84
3557858C1	TURBO BOOT CLAMP	5015C		\$59.99
DDE.A4729970245	O RING	5015C		\$9.83
DDE.A0019957302	PIPE CLAMP	5015C		\$40.50
DDE.A4721421380	GASKET EXHAUST, TURBO	5015C		\$12.25
DDE.A4722000154	COUPLING - WATER MAN	5015C		\$17.91
DDE.A4739980245	VIB DAMPER	5015C		\$9.77
DDE.N007349008007	HARDWARE MOUNTING	5015C		\$2.12
Total Parts				\$8,582.52
Total Parts and Service				\$8,582.52