



3555 46 AVENUE SOUTH EAST  
CALGARY, AB T2B 3B3  
(403) 720-3400

Remit To:  
RJAMES MANAGEMENT GROUP LTD.  
3555 46 AVENUE SOUTH EAST  
CALGARY, AB T2B 3B3

REPAIR INVOICE  
INVOICE #  
CALRO495528

Terms: Net30

Bill To: HARLYN TRANSPORT LTD.

Date: 01/06/2024

R.O. #: CAL013005

P.O. #:

Acct #: 61558

Page #: 1

Written By: Aarzo Gill

Released By: AARZOO GILL

Dept:

Acct:

Serial #: 5KKPBWFG8PLNP4448

Eng S #: 80396664

Eng M:

Ship To: HARLYN TRANSPORT LTD.

Year: 2023      Make: Western Star      Unit: 51  
Mileage: 223711      Model: 49X      Fleet #:  
DIS: 5/31/2022      Eng H: 0

*E032-1*

Operation: 1      Repair Code: EA  
Complaint: EXPRESS ASSESSMENT      \*\*\*WAITER\*\*\*  
Cause:  
Correction:

Part Number	Description	Qty	Price	Credit	Extension
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Parts Total: 0.00

Labor Total: 0.00

Warranty Total: 0.00

Operations Total: 0.00

Operation: 2      Repair Code: MISCLABOR  
Complaint: UNIT WON'T COMPLETE REGEN - FOR PAST 2 DAYS UNIT GOES INTO REGEN AND ABORTS IT WITH UNSUCCESSFUL REGENS - SINCE THIS AM UNIT HAS BEEN ASKING FOR A PARKED REGEN - BUT WON'T GO INTO REGEN MODE - NOW THE UNIT HAS DPF'S RESTRICTED ERROR ON DASH WITH CEL ON, MIL ON, SEL CAME AND WENT COUPLE HRS AGO - DIAG AND ADVISE.  
Cause: Stuck DPF differential pressure sensor, covered by Control # 16279415  
Correction: Confirmed customer concern, opened guidanz case # 00762470. Active FC 1883, 1921, 5715 & 1981. No circuit codes present.  
Need to complete diagnostics step for priority fault 1883 as per guidanz.  
FC 1883 ATD DPF differential pressure data erratic intermittent or incorrect.  
1) No the faults 1879 and 1881 are not present.  
2) Current calibration is KW10852.04. Latest revision available is KW10852.07. None of the updates apply to this situation/faults.  
3) FC 1883 remains active - DPF differential pressure sensor is failed.  
Removed differential pressure sensor, installed new and torqued spec.  
Ensured both pressure tubes were clear with light compressed air.  
Hooked up to unit, cleared all faults. Performed FC overview validation, fault did not return.  
Fault DPF Differential Pressure Sensor caused the unit to not be able to regen and the DPF to get full.  
Performed regeneration to clear requested regen faults.



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GST ID 848002507



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Part Number	Description	Qty	Price	Credit	Extension
5492073	SENSOR,DFN PRESSURE	1	\$0.00	\$0.00	\$0.00

Parts Total: 0.00

Labor Total: 0.00

Warranty Total: 0.00

Operations Total: 0.00

Operation: 3

Repair Code: MISCLABOR

Complaint: WHEN BRAKES APPLIED, UNIT SHAKES - ESP. WHEN LOADED - DIAG AND ADVISE.

CUSTOMER HAS ADVISED THE LAST UNIT HAD FRONT DRUMS OUT OF ROUND. REQUESTS US TO CHECK THIS FIRST.

Cause: Steer axle brake drums out of round, causing heavy vibration in steering/brakes/front end when brakes applied.

PFP - TDA 53123607 - component code 013-001-023

Correction: Road test unit and confirm complaint - need to disassemble steer axle and inspect. Jack and block steer axle.

Remove wheels, back off brakes, remove brake drums for inspection.

Signs of out of round, burnt spots on drum indicating other areas have spread, causing tight spots to rub/grab shoes more and create excess heat. Both brake drums have built up rust/corrosion on inside edges inside drum, pieces can be pried/chipped off.

Measured brake drums, confirmed inconsistent measurements, varies from 16.523 up to 16.585, .050 difference in measurements.

Confirmed out of round brake drums.

Clean and install new brake drums, install and torque wheels, set unit on the ground, adjust brakes, verify brake stroke.

Perform road test with multiple braking events, hard and soft braking. No vibrations felt during braking.

Repair complete.

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Part Number	Description	Qty	Price	Credit	Extension
TDA 53 123607 002	DRUM/X30 LTWT	2	\$417.16	\$0.00	\$834.32

Parts Total: 834.32

Labor Total: 595.00

Warranty Total: 0.00

Operations Total: 1,429.32

Operation: 4      Repair Code: RECALL

Complaint: PERFORM RECALL FL966-F BRAKE MODULATOR VALVES

Cause: Recall not yet completed - confirmed modulators are bad PN"s. PFP: 25-FL966-000

Correction: Removed PS modulator valve connector and verified unit has incorrect part numbers installed.

Both modulators to be replaced as per recall. Removed and replaced both modulator valves and torqued to spec.

Performed validation and applied recall sticker to PS door well.

Part Number	Description	Qty	Price	Credit	Extension
25-FL958-000	KIT,FL958,ANODIZED PAINTED SMV 1		\$0.00	\$0.00	\$0.00

Parts Total: 0.00

Labor Total: 0.00

Warranty Total: 0.00

Operations Total: 0.00

Operation: 5      Repair Code: MISCLABOR

Complaint: SINCE OP 2 REPAIRS, THE UNIT EXPERIENCED A FEW DAYS OF REGENING TOO FREQUENTLY. RPM WOULD BUMP UP AT EVERY LIGHT. UNIT HAS SINCE STOPPED DOING THIS FOR ABOUT A DAY. NO CEL - DIAGNOSE AND ADVISE

Cause: Injectors internally failed - over fueling causing excessive regenerations. PFP: 5492073

Failure code - FIAS. Failure mode LF (leaks fuel/gas air mixture)

Correction: Create new Service order 00766936. Begin symptom based TS for regens

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excessive

1- follow TSB230162, perform data extraction, submit ECM image and complete required forms

Review update from CCSR techs and advise on action plan Steamed off engine, covered in debris.

Removed airbox, intake assembly, rear airbox mount, EGR crossover pipe, injector feed lines, transfer tubes, rocker cover, inj harness and all injectors. (Generic 1.5HRS due to seized/corroded transfer tube nuts and cleaning all rust from threads and bores.)

Evacuated all fuel from cylinders. Inspected all new injectors and installed with new transfer tubes.

Torqued to spec in sequence. Reassembled in reverse order. Changed rocker cover gasket due to hardening.

Torqued all components to OEM or Cummins spec. Hooked up to unit, reset injectors and primed fuel system.

Ran engine and steamed off. Performed TS for Excessive Regenerations following Guidanz based TS.

Step 2 - (Generic 0.75HRS to let unit get to operating temperature for test) - Performed Air Handling Test - passed.

Step 3 - AFT DPF Pressure Sensor stuck in range, hooked up to unit and checked DPF Diff Pressure sensor voltage @ KOEOff in spec at 0.69V. Step

4 - Injectors replaced before snap test - went to next step.

Step 5 - DPF Diff pressure tubes cleaned last week during sensor replaced, zero plugging noted.

Step 6 - Perform DPF Restriction Test, checking ATS history, found unit performed regen over 1hrs ago, unit needs regen first.

Performed all parameters log file regeneration. Saved log to folder. Test can now be performed.

Unit sat overnight, run engine to increase coolant temp to allow DPF restriction test to start.

Step 6- Connect Insite, monitor and log file parameters, perform DPF restriction test, passed x2.

Step 7 - Check for ECM calibration updates, current ECM calibration level KW10852.04, revision level .07 available.

Update ECM calibration level to latest. No further fault codes present, no other issues noted.

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Make: Western Star

Unit: 51

Mileage: 223711

Model: 49X

Fleet #:

DIS: 5/31/2022

Eng H: 0

Close Guidanz case.

Part Number	Description	Qty	Price	Credit	Extension
5579421PX	KIT,INJECTOR	6	\$0.00	\$0.00	\$0.00
5579421PX-CORE	5579421PX#	6	\$0.00	\$0.00	\$0.00
3104392	GASKET,VALVE COVER	1	\$0.00	\$0.00	\$0.00
3687051	CARRIER,SEAL	2	\$0.00	\$0.00	\$0.00

Parts Total: 0.00

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Repair Invoice  
Terms and Conditions

I acknowledge as an owner or representative of the above company and/or individual, the indebtedness for any and all requested repairs, diagnostics, and declined warranty; and understand and grant that a Garage Keeper's Lien will be filed to secure the amount of these and all possible warranty repairs thereto by RJAMES MANAGEMENT GROUP LTD. I hereby acknowledge my indebtedness in the amount of the balance of this invoice either by purchase order, signature, email, and/or phone confirmation. I authorize RJAMES MANAGEMENT GROUP LTD. to collect, use and disclose the personal and business information I have provided for the purpose of providing goods and services as requested, to better understand needs and preferences, to establish and maintain responsible commercial relations, and to provide ongoing service(s). It is also understood that all warranty or policy claims are submitted on behalf of the customer pending vendor inspection and approval. It cannot be assumed that there is warranty, and responsibility for any and all debt of the repair(s) is assumed by the customer in full until approval is granted. RJAMES MANAGEMENT GROUP LTD. will issue a credit to you or your account for the amounts paid by the vendor when and if a warranty or policy claim is approved. Only repairs performed by RJAMES MANAGEMENT GROUP LTD. at an authorized facility of RJAMES MANAGEMENT GROUP LTD. will have a 90 day workmanship guarantee, and all claims made can only be honored at these facilities. If wheels are removed for any reason, it is the customer's responsibility to have them re-torqued after 100 kms. RJAMES MANAGEMENT GROUP LTD. will not be liable for loose wheels. TERMS: The full amount of this invoice is payable 30 days following purchases of products or services. SERVICE CHARGES: 2% per month or 24% per annum on overdue accounts. A \$50.00 service charge will apply to all NSF cheques.

Parts: \$834.32  
Core CRD: (\$ 0.00 )  
Freight: \$0.00  
Labor: \$595.00  
Sublet: \$0.00  
Towing: \$0.00  
Mileage: 0.00  
Shop Supp: \$47.60  
GST/PST: \$73.85 / \$0.00  
Env Fee: \$0.00  
No Charge: (\$ 0.00 )  
Coupon CRD: (\$ 0.00 )  
Return CRD: (\$ 0.00 )  
Total: \$1,550.77

CUSTOMER  
SIGNATURE



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