

Absolute Heavy Duty Repair 2023
div of Keabray Holdings Ltd.
 A Division of Keabray Holdings LTD
 PO Box 5125 STN Main
 Drayton Valley, AB T7A1R3, CA
 Absolutservice@keabray.ca
 780-542-8242



Invoice: **INV-8621**
 Date: **2/6/2025**

Bill To
James Walford

Remit Payment To
Keabray Holdings Ltd.
PO Box 5125
DRAYTON VALLEY, AB T7A 1R3, CA

| Service Order | Terms | Due Date | Authorizer | Customer PO | Service Writer | Unit # |
|---------------|-------|----------|---------------|-------------|-----------------|--------|
| SO-4515 | COD | 2/6/2025 | James Walford | | Goertz, Clayton | 1 |

| Item | Description | Quantity | Rate | Amount |
|------|-------------|----------|------|--------|
|------|-------------|----------|------|--------|

Concern: Oil leaks, Power steering

Cause: Customer request

| | | | | |
|--------------|---|--|--|-------------------|
| Labor | <p>Correction:</p> <p>Engine / Lubrication / -Diagnosed why power steering is getting engine oil into the power steering reservoir.</p> <ul style="list-style-type: none"> -Pulled all lines off power steering pump, removed pump and disassembled to find out that pump shaft is grooved and the seal is damaged. -Ordered parts. -Installed new pump and hooked up lines, noticed that suction line was almost rubbed through so I replaced the line and fitting on pump. -Changed fitting because seating washer for oring was bent causing oring to leak. -Used new hardware to install pump as well, put 5.5 liters of ATF in. -Sucked out all lines of fluid because of engine oil being in the ATF. -Changed power steering filter and cleaned out reservoir. -Zip tied up power steering lines. -Blew out power steering cooler as well. -Customer says compressor is leaking oil, found that fuel pump and compressor are both leaking oil, ordered parts. -Drained coolant and removed fuel pump, Governor and the air compressor. -Replaced unloader kit in air compressor while removed -Cleaned up parts and engine of oil and reassembled back together with the right seal for the fuel pump and compressor. -Replaced all orings for orb fittings and boss orings on fuel lines. -Coolant line from block to the air compressor I had to replace because it was rotten and broke during removal. Also replaced the fitting at the block for the coolant line. -Zip tied all lines up from rubbing. -Noticed a fuel line was pinched almost off so I cut the synflex and reinstalled, used a new compression fitting. -Checked air to air boots with pressure tester and found that both leaking, removed both boots and replaced boots with the correct boots. -It had blue boots where the orange boots should be. -Also installed new clamps because one was seized and one was the wrong clamp. -Cleaned up all mating surfaces for boots. -Noticed d/s steer axle brake line is rubbed through, changed line out before test drive. -No visible oil leaks from air compressor, fuel pump or the power steering system at this time. -R/R oil pressure gauge and engine coolant temperature gage from dash. -Had to pull dash open and replace gauges -Verify function of gauges, all ok | | | \$2,800.00 |
|--------------|---|--|--|-------------------|

| Item | Description | Quantity | Rate | Amount |
|-------|---|----------|-----------------|-------------------|
| Parts | CAC Connector Hose CLAMP 4.06" - 4.38" HD T-BOLT - 561.230406 | 4.00000 | \$23.00 | \$92.00 |
| Parts | 4" Red CAC Bellows Hose (AUT) - 561.1540060 | 2.00000 | \$45.85 | \$91.70 |
| Parts | Vickers pump - V20F1D11S38C8H20QG | 1.00000 | \$564.00 | \$564.00 |
| Parts | Inherent Core for Vickers pump - Vickers core | 1.00000 | \$25.00 | \$25.00 |
| Parts | Dirty Core for Vickers pump - Vickers core | -1.00000 | \$25.00 | -\$25.00 |
| Parts | mounting gasket - 1075769 | 1.00000 | \$2.93 | \$2.93 |
| Parts | mounting gasket - 154916 | 1.00000 | \$8.47 | \$8.47 |
| Parts | 12x90mm bolt - zcsm8sc-12-90 | 6.00000 | \$2.43 | \$14.58 |
| Parts | Hose assembly - Assembly | 1.00000 | \$327.70 | \$327.70 |
| Parts | Power steering Filter - LF637 | 1.00000 | \$51.53 | \$51.53 |
| Parts | Air Compressor Mount Gasket - 23527273 | 1.00000 | \$20.05 | \$20.05 |
| Parts | Fuel Pump O-Ring - 23533010 | 1.00000 | \$7.10 | \$7.10 |
| Parts | O-Ring - 23527275 | 1.00000 | \$1.66 | \$1.66 |
| Parts | Compressor Unloader Kit - 170.5008557 | 1.00000 | \$48.52 | \$48.52 |
| Parts | #8 JIC X 1/2"NPT 90 ADAPT - 202488 | 1.00000 | \$9.44 | \$9.44 |
| Parts | 8SAE F 90DEG #8 hose FTG - RR5-8FSB8 | 1.00000 | \$36.61 | \$36.61 |
| Parts | 8SAE F #8 hose reuse ftg - RR5-8FS8 | 1.00000 | \$12.25 | \$12.25 |
| Parts | #8 100R5 hose - SR5-08 | 1.00000 | \$7.36 | \$7.36 |
| Parts | Air hose 1/2IDx3/8NPTx32IN - 177.7832 | 1.00000 | \$19.84 | \$19.84 |
| Parts | Auto Transmission Fluid - ATF1 | 5.50000 | \$8.16 | \$44.88 |
| Parts | oil pressure sensor - 23527828 | 1.00000 | \$129.23 | \$129.23 |
| Parts | Engine Oil Pressure Gauge - 87340S3444 | 1.00000 | \$119.00 | \$119.00 |
| Parts | Engine Cool Temp - 87340S3443 | 1.00000 | \$119.00 | \$119.00 |
| Parts | Freight charge under 200lbs - FRTU200 | 2.00000 | \$75.00 | \$150.00 |
| | | | Subtotal | \$4,677.85 |

Concern: Overhead set**Cause: Customer request****(Inspection)**

| | | |
|--------------|---|-------------------|
| Labor | Correction: | \$1,680.00 |
| | Engine / Valves / -Compression brake is weak, customer complaint. | |
| | -Unhooked batteries. | |
| | -Drained bug wash and unplugged for access. | |
| | -Pulled air filter housing and one radiator support to gain access to rocker box cover. | |
| | -Removed cover and cleaned off all silicone from rocker box and gasket so I could reuse it later. | |
| | -Removed both compression brakes and installed bolts back into the rocker shaft and torqued down so I could do a valve set. | |
| | -Set all valves but on #2 the exhaust adjuster screw was broken on top so I had to removed the rocker shaft and install a new adjuster screw. | |
| | -Torqued back down and set the valves. | |
| | -Removed all bolts and installed compression brakes, torqued down and set the lash for the brake. | |
| | -Got to #3 cylinder and noticed that the adjustment couldn't be set to spec | |
| | -Diagnose why adjustment can't be set, discover bad adjuster screws on compression brakes | |

| Item | Description | Quantity | Rate | Amount |
|-------|---|----------|-----------------|-------------------|
| | -Removed front compression brake and rocker shaft and replaced both adjuster screws. -Installed rocker shaft and torqued down so I could set the valves again on # 3 cylinder. -Put rocker box cover on with silicone at the front and back where it was before. -Torqued bolts for cover. -Assembled air filter housing and rad support back on as well. -Hooked batteries back up. -Test drove truck and said compression brake functions properly -No leaks at this time -Noticed that battery cover is too tall and is rubbing on frame rails behind cab. -This will need to be addressed in the future. | | | |
| Parts | Rocker Arm Adjuster Screw - 23537089 | 1.00000 | \$24.29 | \$24.29 |
| Parts | Adjuster Screw Nut - 23514371 | 1.00000 | \$2.01 | \$2.01 |
| Parts | Rocker Arm Adjuster Screw - 23537089 | 2.00000 | \$24.29 | \$48.58 |
| Parts | Adjuster Screw Nut - 23514371 | 2.00000 | \$2.01 | \$4.02 |
| Parts | Freight Charge under 50lbs - FRTU50 | 1.00000 | \$40.00 | \$40.00 |
| | | | Subtotal | \$1,798.90 |

Unit: 1 VIN: 5KJRALVK45PN69423
 2005 Western Star 4900
 Chassis: 224,935 Kilometers
 Engine: 18,219 Hours

| | |
|-------------------------------------|-------------------|
| Labor | \$4,480.00 |
| Parts | \$1,996.75 |
| Shop Supply & Enviro Fee | \$356.22 |
| Pre-Charge Subtotal | \$6,832.97 |
| GST (5% of \$6,832.97) | \$341.65 |
| Total | \$7,174.62 |
| Payments & Credits | \$7,174.62 |
| Balance Due | \$0.00 |

Payment Authorized at 3:53PM 2/6/2025 by:

Payment Information

| Date Created | Date Applied | Payment # | Method | Reference # | Amount |
|--------------|--------------|-----------|------------|-------------|------------|
| 2/6/2025 | 2/6/2025 | 101085680 | Debit Card | 222140 | \$7,174.62 |

Retorque wheels with in 50 km.

Parts Policy:

Special Order parts may include freight charges, require a deposit, and are considered final sale. Parts kits must be returned complete and in resalable condition. Partial kit returns are not accepted. All parts must be returned in their original, resalable packaging to qualify for credit. Core returns are eligible for credit within 30 days, subject to the supplier/manufacturer's acceptance and credit issuance. Customer-supplied parts and