

| Starting Date | Ending Date | Make | Model | Serial Number | Stock Number | |
|---------------|--|--|-------------------|---------------|--------------|------|
| 11/20/13 | 12/31/13 | NH | 8870 | D413356 | 128393 | |
| Promised | Call When Ready | Deliver? | 2nd Serial Number | Usage | Invoice Type | St.# |
| | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | 6164 H | DUPLICATE | 11 |

DUNCAN ENGINE

The tractor died and will not crank over, may have dropped a valve.

Brought into shop with forklift. Attempted to start engine. Checked engine oil and found it was overfull. Removed engine oil drain plug, drained oil and found alot of coolant in pan. Removed injector lines, removed air intake hose and intake manifold. found debris from pistons in intake. Removed exhaust stack, muffler and exhaust manifold. Inspected and found metal in turbo and in head with a broken valve. Removed hood, removed ac compressor with condensor and side panels. Removed oil cooler and intercooler and radiator. Removed wiring harness from engine, disconnected fuel lines. Removed hood support bracket and air cleaner assembly. Removed starter, overflow tank and alternator. Removed engine, and injection pump. Removed valve cover, rockers, push rods then head. Head and block were destroyed, Assembled engine for core. Got new longblock, installed flywheel with new torque dampner. Installed Exhaust manifold, after

LABOR

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| | | 1/20/26 | 2:16PM | 1W136489 | AB | | | 2 |
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| QTY | B/O | DESCRIPTION OF WORK DONE / PART NUMBER | | | | PRICE | AMOUNT | |

drilling out broken turbo mount studs. Installed new studs, reman turbo and new nuts. Installed reman injectors, intake manifold and return line. Recieved injection pump from rebuild and installed. Installed new thermostats. Removed components from old engine and installed on new engine. Replaced transmission input seal, seal was leaking. Installed engine in frame. Installed starter, wiring harness, muffler and stack. Installed radiator, intercooler and oil cooler, installed ac compressor and condensor. Installed air cleaner and hoses. Replaced bad water hoses, water filter and fuel filter. Filled engine with oil, filled radiator with new coolant. Cranked engine with fuel solenoid unplugged until oil pressure came up. Bled fuel system and started engine. Installed hood and side panels. Ran engine on dyno for about 2 hrs varying the load and engine speed. Brought back into shop. Tested oil pressure with manual guage. Replaced oil sender with new unit.

1.40 Troubleshoot engine

33.80 Engine, removed - Replace - with a long block - includes transfer of all previously removed engine components 10 001 AD 40

7.00 Cylinder head - Remove and install - with engine removed 10 101 AA 21

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| | |
| LABOR | |
| PARTS | |
| FREIGHT/MILEAGE | |
| OTHER | |
| CONSUMABLES/GOV COMPL | |
| SALES TAX | |
| TOTAL | |
| | |
| BALANCE DUE | |

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| QTY | DIS | DESCRIPTION |
|------|-----|---|
| | | 2.80 Engine removed - Test on dyno10 001 AD 38 |
| | | 1.40 Troubleshoot engine oil pressure |
| | | 0.28 Engine oil pressure switch - Replace55 013 |
| | | AB 12 |
| | | 0.28 Engine coolant fluid filter - Replace10 400 |
| | | BD 51 |
| | | 1.40 Transmission input shaft sea. |
| | | 0.98 Coolant thermostats - all - Remove and |
| | | install110 400 BC 30 |
| | | Removed left wheel, drained planetary, removed |
| | | steering links, sungear and knuckle. Cut bearing |
| | | races out with torch, installed new bearings, |
| | | races, and seals and lower king pin. Installed |
| | | knuckle, sungear, hub and wheel. Filled planetary |
| | | and grease king pins. Test drove and checked for |
| | | leaks. |
| | | 3.08 Steering articulation pins and bearings - |
| | | right-hand or left-hand - Remove and install25 |
| | | 108 AG 46 |
| | | 3.08 Planetary final drive - right-hand or |
| | | left-hand - Disassemble and assemble25 108 AB 30 |
| | | 0.42 Left-hand front wheel and tire assembly - |
| | | one - Remove and install44 511 AE 10 |
| 1.00 | | ZONE 1 325 CE 11/18/13 |
| | | Shop Supplies & Gov Compliance |
| | | PARTS DISCOUNTS 10% |

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| QTY | NO | DESCRIPTION | UNIT |
|------|----------------|----------------------------------|----------|
| | | LABOR DISCOUNTS 10% | |
| | | TRUCKING DISCOUNTS FREE TRUCKING | |
| 1 | NH 87800718BR | REMAN-BA | |
| CORE | NH 87800718BC | CORE-BAS | |
| 1 | NH 87840270R | REMAN-TU | |
| CORE | NH 87840270C | CORE-TUR | |
| 6 | NH 81876871R | REMAN-IN | |
| CORE | NH 81876871C | CORE-INJ | |
| 1 | NH 9825201 | DAMPER | |
| 4 | NH 87803213 | STUD | J6C3 |
| 4 | NH 87803212 | NF NUT | C0615 |
| 12 | NH 87332791 | BOLT | J1C4 |
| 1 | NH 86500761 | SEAL, OI | |
| 1 | NH F3NN6784AA | TUBE | |
| 2 | NH 87803664 | THERM | 1E2G4 |
| 1 | NH 81822547 | GASKET | 1R2D |
| 1 | NH F2NN6N910AA | FERRULE | |
| 6 | NH J903380 | SEAL | 1P3C4 |
| 2 | JD 6152-21304 | 716X3 | 01H3 |
| 1 | NH 84518337 | FILTER/E | M3 & 1D5 |
| 1 | NH 87840136 | FUEL FLT | M5 |
| 1 | NH 861361 | WTR FLTR | M3 |
| -6 | NH 81876871C | CORE-INJ | |
| -1 | NH 87840270C | CORE-TUR | |
| -1 | NH 87800718BC | CORE-BAS | |
| 2 | NH 83955185 | SLEEVE | 1P3C3 |
| 1 | NH 9846567 | SLEEVE | 1P3C3 |

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| SALES TAX | |
| TOTAL | |
| | |
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** CONTINUED ON NEXT PAGE **

INVOICE NO. 1W136489-01



| Acct No. | Payment | Date | Time | Invoice Number | SP | P.O. Number | Tax ID | Pg.# |
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3/8" FUE 2C7
 #72CLAMP 1C4D4
 HEATER K2K1
 5/16" FU 2C7
 M6X16 J5L1
 #12CLAMP 1C4D1
 3/4 HOSE 2C3
 1G ANTIF 44A
 PIN, BAL
 SHIM 1R2D
 BEARING,
 BEARING,
 CUP&CONE K2E4
 SEAL, OI K1H2
 RETAINER
 RETAINER
 WHL SEAL K1H1
 15W40 BU 9OIL BLDG
 COTTER J1H3
 SENDER J3D3
 FAN BELT C0814
 AIR FLTR 5G
 AIR FLTR 5E

OR

4

19662.89