

#1055

## SERVICE INVOICE

NUMBER

DATE

1/31/2014

PO#

ADVISOR

DELIVER TO

BILL TO

VIN 1HTGCADT1WH563684 (1998 INTERNATIONAL 2000 SERIES) UNIT ID 333621

Vac Truck # 27

TERMS AR OPENED 01/02/2014 ODOMETER IN/OUT 85,211/85,211

JOB #1 0 - SEE COMMENTS

CONDITION OVERHAUL ENGINE PER CUSTOMER REQUEST

CAUSE ENGINE HOURS - 10,348

**CORRECTION** CHECK OVER HAS OIL LEAKS STEAM CLEAN OFF AND RUN ENGINE AND CHECK OVER FOR LEAKS AND FOUND OIL PUMP LEAKING AND GEAR HOUSING LEAKING PRICED PARTS REMOVED HOOD TO GAIN ACCESS FOR CHERRY PICKER TO REMOVE HEAD DRAINED OIL FOUND COOLANT IN OIL PRESSURE TEST COOLING SYSTEM REMOVED OIL PAN AND FOUND LINER SEALS LEAKING DRAINED COOLANT AND REMOVED RADATOR AND CAC AND HOSES REMOVED BELT AND BALANCER TO GET PICK UP TUBE BOLTS OUT REMOVED PICKUP TUBE AND REMOVED EXHAUST AND FOUND TURBO LOOSE HITTING HOUSING PRICED PART REMOVED ROCKER COVER AND ROCKER ARMS AND INJECTORS AND CYLINDER HEAD AND PISTONS AND LINERS UPPER LINER SEALS ALL BAD AND SOME LOWER SEALS CLEAN BLOCK OK AND PARTS REMOVED AND INSTALLED NEW MAIN BEARINGS AND BOLTS HAD TO POLISH CRANK SEE LINE 2 INSTALLED NEW RINGS ON NEW PISTONS AND ASSEMBLYIES ON RODS INSTALLED NEW LINERS AND SEALS AND CHECK LINER HEIGHT AVERAGE .0025 INSTALLED PISTONS AND ROD ASSEMBLIES IN ENGINE WITH NEW ROD BEARINGS AND BOLTS SWAP OVER PARTS ON CYLINDER HEAD AND INSTALLED REMAN CYLINDER HEAD AND REINSTLAED ROCKER ARMS WITH ALL NEW HEAD BOLTS REINSTALLED PUSH RODS AND ADJUSTED VALVES AND INSTALLED REMAN INJECTORS AND REINSTALLED HARNESS AND REINSTALLED ROCKER/INTAKE HOUSING AND PAINT ENGINE REINSTALLED EXHAUST MANIFOLD WITH NEW BOLTS AND INSTALLED REMAN TURBO REINSTALLED EXHAUST PIPES AND CAC PIPES AND AIR CLEANER ASSEMBLY CHECK AIR FILTER OK INSTALLED NEW OIL FILTER AND FUEL FITLER AND REINSTALLED OIL PAN FILLED WITH NEW COOLANT AND ADDITIVE START ENGINE AND CHECK OVER OK REINSTALLED TIRES AND HOOD AND ROAD TEST OK CHECK OVER FOR LEAKS HAS OIL LEAK AT REAR STRUCTURE ALSO HAS A LEAK AT TRANS AND PTO ALSO HAS LOOSE TIE RODS AND SPRING PIN BUSHINGS ARE GONE SHACKLE BOLTS HITTING FRAM RAILS

| QTY | ITEM                 | DESCRIPTION       | PRICE | EXTD PRICE |
|-----|----------------------|-------------------|-------|------------|
|     |                      | LABOR FOR REPAIRS |       |            |
| 14  | 510X/1817356C1       | BOLT,BRG CAP      |       |            |
| 12  | 510X/1817830C1       | BOLT              |       |            |
| 1   | 510X/1822135C1       | ORING             |       |            |
| 20  | 510X/1824954C3       | HEAD BOLTS        |       |            |
| 6   | 510X/1824955C2       | BOLT              |       |            |
| 1   | 510X/1830256C93      | THERMOSTAT        |       |            |
| 1   | 510X/1836012C99      | OH KIT            | 1     |            |
| 12  | 510X/1840363C1       | BOLT,CONN ROD     |       |            |
| 6   | 510X/2593591C91      | INJECTOR          |       |            |
| 6   | 510X/2593591C91-CORE | INJECTORE CORE    |       |            |
| -6  | 510X/2593591C91-CORE | INJECTORE CORE    |       |            |
| 1   | 510X/2599990C91      | CYL HEAD          | 2     |            |
| 1   | 510X/2599990C91-CORE | CORE              |       |            |
| -1  | 510X/2599990C91-CORE | CORE              |       |            |

\*\*\* BALANCE DUE \$17,534.18 \*\*\*

| QTY | ITEM                   | DESCRIPTION                    | PRICE | EXTD<br>PRICE |
|-----|------------------------|--------------------------------|-------|---------------|
|     |                        | LABOR FOR REPAIRS              |       |               |
| 1   | 510C/4966447           | GASKET,EXH OUT CONNECTION      |       |               |
| 1   | 510D/05-25481-001      | HOSE-FORMED UPR M105 RAD       |       |               |
| 1   | 510D/ABP N35 40PLS     | 40 SS PRE - FORMED T           |       |               |
| 8   | 510D/BRZ CT 300 L SS   | CLAMP-CT,HOSE,2 1/4-3 1/8,5/8  |       |               |
| 4   | 510D/BRZ CT 300 L SS   | CLAMP-CT,HOSE,2 1/4-3 1/8,5/8  |       |               |
| 2   | 510D/DDE N000000001069 | SEAL RING (20MM O.D. X 14MM I  |       |               |
| 7   | 510D/GT 3230 3/8       | HOSE 3230 - 0298               |       |               |
| 3   | 510D/GT 4169G2 1/2     | RAD HOSE 4169 - 2557           |       |               |
| 4   | 510D/GT 4230S83/4      | HTR HOSE                       |       |               |
| 4   | 510D/GT 4230S85/8      | HEATER HOSE, 5/8 INCH ID       |       |               |
| 4   | 510D/GT 4230T1         | HTR HOSE 4230 - 0174           |       |               |
| 2   | 510D/PHM 1 1962        | SCREW                          |       |               |
| 8   | 510D/PHM 8 43147       | TIE STRAP-14.5IN,BLACK,NYLON,5 |       |               |
| 10  | 510D/PHM 8 44147       | TIE STRAP-15IN BLACK,NYLON,100 |       |               |
| 2   | 510M/05008             | UTILITY ROLL                   |       |               |
| 1   | 510M/07447             | SCUFFING HAND PADS             |       |               |
| 2   | 510M/07486             | 3M SURF COND DISC. ROLOC TYPE, |       |               |
| 1   | 510M/25910             | LUBRIPLATE                     |       |               |
| 4   | 510M/7480              | ROLLOC DISK                    |       |               |
| 2   | 510M/C39039            | GR. 8 HX FLANGE CS 1/2-13X2-1/ |       |               |
| 4   | 510M/IDL5206           | HOSE CLAMP                     |       |               |
| 3   | 510M/IDL5210           | HOSE CLAMP                     |       |               |
| 2   | 510M/IDL5212           | HOSE CLAMP                     |       |               |
| 2   | 510M/IDL5216           | HOSE CLAMP                     |       |               |
| 2   | 510M/KP73562           | GRADE 8 FLANGE HEX NUT - 1/2-1 |       |               |
| 2   | 510M/KP76234           | EXTEND PRONG COTTER PIN 1/16X1 |       |               |
| 3   | 510R/32584             | WIRE CLIP CLS TYPE 5/8DIA 3/8  |       |               |
| 6   | 510R/-32585-1          | WIRE CLIP CLS TYPE 1 DIA 3/8 M |       |               |
| 1   | 510R/-32585-4          | WIRE CLIP CLS TYPE 1-1/4DIA 3/ |       |               |
| 1   | 510V/DN P552071        | SPIN ON FILTER                 |       |               |
| 2   | 510V/DN X007099        | CLNT ADDTV                     |       |               |
| 1   | 510V/PEX 80631         | THREAD SEALANT                 |       |               |
| 36  | 510V/SLO 500004741     | SHELL ROTELLA CJ4 15W40        |       |               |
| 6   | 510V/SLO 9401006021    | SHELLZONE CONCENTRATE GREEN    |       |               |
| 2   | 510X/1664723C4         | FRONT MOTOR MOUNTS             |       |               |
| 2   | 510X/1664726C2         | MOUNT                          |       |               |
| 6   | 510X/1812348C1         | SLEECE                         |       |               |
| 12  | 510X/1813892C1         | GUIDE,ROLLER TAPPET            |       |               |
| 2   | 510X/1817862C1         | SEAL                           |       |               |
| 2   | 510X/1817956C1         | BOLT                           |       |               |
| 2   | 510X/1818402C2         | O-RING                         |       |               |

\*\*\* BALANCE DUE \$17,534.18 \*\*\*

|    |                      |  |          |
|----|----------------------|--|----------|
| 1  | 510X/1818727C1       | SEAL   | 3        |
| 1  | 510X/1820287C2       | BOLT   | 4        |
| 1  | 510X/1820353C1       | RING   | 5        |
| 1  | 510X/1820907C2       | ORING  | 5        |
| 1  | 510X/1820907C2       | ORING  | 5        |
| 2  | 510X/1821098C2       | RING   | 4        |
| 2  | 510X/1822121C2       | BOLTS  | 4        |
| 1  | 510X/1824984C95      | KIT  | 4        |
| 3  | 510X/1825464C1       | SCREW  | 4        |
| 1  | 510X/1825685C1       | SEAL   | 4        |
| 1  | 510X/1826335C92      | COVER  | 4        |
| 1  | 510X/1830172C1       | SEAL RING                                    | 4        |
| 1  | 510X/1833096C94      | FRT SEAL                                     | 4        |
| 1  | 510X/1833356C96      | OIL PUMP ASY                                 | 4        |
| 1  | 510X/2024703C2       | CAC HOSE                                     | 4        |
| 1  | 510X/2026653C1       | CAC CLAMP                                    | 4        |
| 1  | 510X/24036           | RADIATOR HOSE                                | 4        |
| 2  | 510X/3130            | EMERY CLOTH                                  | 4        |
| 1  | 510X/3557854C1       | CAC CALMP                                    | 4        |
| 1  | 510X/40055R1         | BOLT   | 4        |
| 1  | 510X/42318HD         | WATER PUMP                                   | 4        |
| 1  | 510X/4307261R91      | TURBO  | 4        |
| 1  | 510X/4307261R91-CORE | TURBO CORE                                   | 4        |
| -1 | 510X/4307261R91-CORE | TURBO CORE                                   | 4        |
| 1  | 510X/687024C1        | SEAL WASHER                                  | 4        |
| 3  | 510X/CHASP29027      | PAINT BLOCK                                  | 4        |
| 1  | 510X/K080760HD       | DRIVE BELT                                   | 4        |
| 1  | E-PDIF               | EMERGENCY PRICE DIFF DTNA HOSE-FORMED        | 4        |
| 1  | FRTD                 | FREIGH UPS FRT INBOUND TURBO HOSE AND CLAMPS | 4        |
| 1  | FRTD                 | TURBO FREIGHT-D                              | 4        |
| 1  | FRTD                 | ROLLER TAPPET FREIGHT-D                      | 4        |
| 1  | FRTD                 | SEL RING FREIGHT-D                           | 4        |
| 1  | FRTD                 | MOTOR MOUNT FREIGHT-D                        | 4        |
| 1  | FRTD                 | NDA FREIGHT-D ON RAD HOSE                    | 4        |
|    |                      |  | 6,387.84 |

|               |           |
|---------------|-----------|
| LABOR         |           |
| PARTS         |           |
| FREIGHT       |           |
| SHOP SUPPLIES |           |
| MISC CHARGES  |           |
| SUB TOTAL     |           |
| TAX           |           |
| BALANCE DUE   | 17,534.18 |

\*\*\* BALANCE DUE \$17,534.18 \*\*\*

Matt

# Invoice

| Date      | Invoice # |
|-----------|-----------|
| 12/7/2017 |           |

| Bill To |
|---------|
|         |

| Ship To |
|---------|
|         |

| Purchase Order | Terms   | Ship Date  | VIA        | Sales Order | Sales Contact |
|----------------|---|------------|------------|-------------|---------------|
|                |   | 11/26/2017 | Pick Up    |             |               |
| Part Number    | Description   | Qty        | Price Each | Total       |               |
|                | Vactor 2112-P4<br>98-02-6393<br>#27<br><br>Miles 95,443<br>Hours 11,870<br>Aux. hours 2,100<br><br>Annual service<br>Evaluate truck for possible trade in value |            |            |             |               |
| 16334AH-30     | SHCS,1/2-13 X 3-1/4 LG,GRADE 8  | 4          |            |             |               |
| 16357K-30      | HHCS,3/4-10NCX4   | 4          |            |             |               |
| 16420W-30      | ROLL PIN 3/32 X 3/4   | 1          |            |             |               |
| 20408-30       | O-RING 1-1/2  | 4          |            |             |               |
| 29678-30       | YOKE,SENSING ROD,STL HEX,1 1/2  | 1          |            |             |               |
| 29698-30       | SEAL KEEPER   | 2          |            |             |               |
| 29841-30       | HHCS - 1/4-20 X 3/4"STNLS   | 8          |            |             |               |
| 29842-30       | LOCKWASHER 1/4" STAINLESS STL   | 8          |            |             |               |
| 37495A-30      | SEAL KIT,UNIVERSAL,RODDER PUMP  | 2          |            |             |               |
| 39200-30       | SENSING ROD   | 1          |            |             |               |
| 39222-30       | BUSHING HAT TYPE STL RD 1 1/2   | 1          |            |             |               |
| 40314-30       | LOCKWASHER - HI-COLLAR 1/2"   | 8          |            |             |               |
| 41458A-30      | TUBE,CLEAR PVC,7/16 ID  | 3          |            |             |               |
| 41848-30       | SETSCREW - 5/16-24X1/2 SOC HD (REPLACES 46839AA)  | 2          |            |             |               |
| 42431-30       | FILTER ELEMENT - 10 MICRON-STD  | 1          |            |             |               |
| 43049-30       | FILTER VENT 1/4 IN  | 2          |            |             |               |

Please pay this invoice, no statement will be sent. We appreciate your prompt payment.

**Total**



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|--|--|------------|------------|--------------|---------------|
|  | I  | 11/26/2017 | Pick Up    |              |               |
| Part Number  | Description  | Qty        | Price Each | Total        |               |
| 43569-30   | VACTOR OEM RODDER LINE,1X400',2500 PSI   | 1          |            |              |               |
| 45378-30   | SOLENOID VALVE   | 1          |            |              |               |
| 45834-30   | SENSOR - PROXIMITY SENSOR  | 1          |            |              |               |
| 46142-30   | HOSE MENDER 1"   | 1          |            |              |               |
| 507171-30  | CHECK VALVE, 2"  | 2          |            |              |               |
| 507349-30  | CHECK VALVE, 3"  | 2          |            |              |               |
| 55787-30   | PISTON ASSEMBLY  | 1          |            |              |               |
| 55790-30   | SEAL RETAINER /SIMILAR TO 3922   | 1          |            |              |               |
| 70530-30   | ADAPT,HYD,8JICX8ORB 90*  | 2          |            |              |               |
| BVK-1  | Ball Valve Drain Kit   | 1          |            |              |               |
| OIL-HYD-15W  | ISO 46 15W HYDRAULIC OIL   | 5          |            |              |               |
| Shop Supplies  | 1-1/4" x 52" Hydraulic Hose to JR Pump   | 1          |            |              |               |
| Shop Supplies  | 1-1/4" x 25" Hydraulic Hose to JR Pump   | 1          |            |              |               |
| Shop Supplies  | Nordlock Washer  | 8          |            |              |               |
| Shop Supplies  | 1/2" x 24" Hose Assembly JIF Ends  | 1          |            |              |               |
| Shop Supplies  | Shop Supplies  | 1          |            |              |               |
| Used Parts   | Piston Rod (29328)   | 1          |            |              |               |
| Used Parts   | Water Piston (29950)   | 1          |            |              |               |
| Used Parts   | Oil Piston (39260)   | 1          |            |              |               |
| Used Parts   | Center Block (62112)   | 1          |            |              |               |
| Used Parts   | Water End Block (51600)  | 1          |            |              |               |
| Sublet Labor   | Rebuild 62180 pump off of 98-02-6393 for water and oil leaking out of center block weep hole.  | 1          |            |              |               |
| Sublet Parts   | Rebuild PTO 1-329071-20X 858 Seal Kit; 1-329144X Valve Cap Assy; 2-560982 BRG Cup, 880 Ser; 2-560986 BRG Cone, 880 Ser; Shop Materials | 1          |            |              |               |
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|----------------|---|------------|------------|-------------|---------------|
|                |   | 11/26/2017 | Pick Up    |             |               |
| Part Number    | Description   | Qty        | Price Each | Total       |               |
| Sublet Labor   | Rebuild Chelsea PTO 858XHFP-B5XV, SN 7308 for leaking output shaft and loose output shaft bearings  | 1          |            |             |               |
| Delivery       | Delivery & Pick up PTO at sublet  | 1          |            |             |               |
| Freight        |   | 1          |            |             |               |
| Labor          | -Replaced lower water tank sight tube and cleaned lower nipple fitting for being plugged with debris.<br>-Checked 3" screen at pump. -Okay.<br>-Checked 2" screen at fill. -Okay.<br>-PTO out put shaft very loose in housing. -Out put seal leaking. -Removed and have rebuilt and reinstalled. -Tested. Okay.<br>-Greased and inspected PTO u-joints. -Okay.<br>-Topped off Cotta Transmission oil. -1/4 QT low.<br>-Checked fluid coupling oil. -Okay.<br>-Checked auxiliary Perkins engine oil level.<br>-Okay. -Runs strong.<br>-Inspected fan. -Very worn. -No cracks. -Missing housing drain plug. -No vibration. -Housing solid.<br>-Center block on rodder pump leaking water and oil. -Installed rebuilt pump. -No S/N on old pump. New pump S/N 10077T.<br>-No Water system accumulator.<br>-Pull off hose and inspected. -Has about 550 feet total. -250 feet good, 300 feet bad.<br>-Removed bad and mended new hose on. | 31.5       |            |             |               |

Please pay this invoice, no statement will be sent. We appreciate your prompt payment.

**Total**



REPRINT CUSTOMER INVOICE

\*  
INVOICE DATE 01-23-16

0

OPEN 01-15-16

SERIAL NO. 1HTGCADT1WH563684 UNIT NO. 27  
YEAR/MAKE/MODEL - 1998 IH S-SERIES  
ENGINE/MODEL/SERL DT-530E  
TRNS/MODEL/SERL - MD3060P/PART#29526844 6510140045  
RXLS MODEL/SERL -  
SELL DLR DEL DATE

MILEAGE 90658  
LICENSE  
CPL/ARRG  
R RATIO  
TAG #  
DEL MILE

1 VIBRATION/HOPS GOING DOWN ROAD

CAUSE:

ALLISON TRANSMISSION

CORRECTION:

ROAD TEST AND VERIFY COMPLAINT IN TRANSMISSION ,ORDERED UNIT AND GOT TRUCK BACK IN REMOVED DRIVELINE DRAINED TRANS FLUID ,PTO DRIVELINE ,TRANS COOLER LINES WIRING AND TORQUE CONVERTER BOLTS REMOVED TRANSMISSION ASSEMBLY AND JACKED UP TRUCK TO GET TRANS OUT FROM UNDER IT,SWAPPED FLYWHEEL AND PTO AND FITTINGS INSTALLED BACK IN UNIT HOOKED UP ALL THAT WAS REMOVED FLUSH TRANSMISSION COOLER AND HOOKED UP LINES FILLED WITH TRANSYND FLUID , TEST DROVE AND BROUGHT BACK IN AND RECHECKED FLUID OK DELIVERED TO BOARD  
GOT A CALL FROM RON WENT TO BPW AND INSPECTED SAYS GETTING A CLUNK WHEN PUT INTO DRIVE INSPECTED AND OBSERVED ONE OF THE REAR ENDS HAS PLAY CAUSING THAT NOISE SEEMS A LITTLE EXCESSIVE COULD DRAIN BOTH REAR ENDS AND CHECK FOR ANY METAL OR HARD PARTS AND MAY NOT FIND ANYTHING IF UP IN POWER DIVIDER

TOTAL LABOR

ADJUSTMENT

TOTAL PARTS  
TOTAL GAS/OIL  
TOTAL FREIGHT

|      |   |            |           |
|------|---|------------|-----------|
| SHOP | 1 | 29526844   | TRANS     |
|      | 2 | H24504     | 1/4"HOSE  |
|      | 2 | O4U-604    | 1/4-SWIVE |
|      | 1 | 13T35777   | GASKET    |
|      | 3 | 3M-08180   | BRK CLN   |
|      | 6 | 27101-CTCS | TRANSYND  |
|      | 1 | FREIGHT    |           |

CONTINUED

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

REPRINT CUSTOMER INVOICE  
PAGE 2

\*  
INVOICE DATE 01-23-16

DOE ACCOUNTS: SEE REVERSE FOR DISCLAIMER.

CUSTOMER NAME  
HANNIBAL BOARD OF PUBLIC WORKS

NUMBER  
PHONE

SALES-CUSTOMER LABOR  
SALES-PARTS-SHOP  
SALES-FUEL/OIL/GRSE  
FREIGHT/XPRESS/SHIP  
PLEASE PAY THIS TOTAL

\$6,693.75

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_