

Equipment Number

1615140

Loader, Wheel L1150

Current Meter: 27.00

Date of Last Reading: 10/01/18

Lifetime Meter: 4,506.00

Operating Hrs/Day: 13

| Component Number | Service Type | Description                 | M S | Current Hours | Interval Hours | Hours Since Last Completed | Overdue Hours | Projected Due Date | Assigned WO | Last WO | Last WO Compl Date |
|------------------|--------------|-----------------------------|-----|---------------|----------------|----------------------------|---------------|--------------------|-------------|---------|--------------------|
|                  |              |                             |     |               |                |                            |               |                    |             |         |                    |
| 1615140-0101     | 0101-01      | PM                          | 01  | 4,488.00      | 250.00         | 122.00                     | 128.00-       |                    | 430429      | 430429  | 06/16/17           |
| 1615140-0101     | 0101-11      | PM Level 1                  | 01  | 4,488.00      | 500.00         | 122.00                     | 378.00-       | 11/27/18           | 429851      | 429851  | 06/16/17           |
| 1615140-0101     | 0101-12      | PM Level 2                  | 01  | 4,488.00      | 1,000.00       | 122.00                     | 878.00-       | 01/04/19           | 429851      | 429851  | 06/16/17           |
| 1615140-0101     | 0101-13      | PM Level 3                  | 01  | 4,488.00      | 2,000.00       | 1,262.00                   | 738.00-       | 12/24/18           | 410146      | 410146  | 02/22/17           |
| 1615140-0101     | 0101-14      | PM Level 4                  | 01  | 4,488.00      | 3,000.00       | 1,262.00                   | 1,738.00-     | 03/11/19           | 410146      | 410146  | 02/22/17           |
| 1615140-0201     | 0201-21      | Valve/Injector Adjust       | 01  | 4,488.00      | 4,000.00       | 361.00                     | 3,639.00-     | 08/04/19           | 421446      | 421446  | 05/24/17           |
| 1615140-0201     | 0201-99      | X, Eng                      | 01  | 4,488.00      | 20,000.00      | 4,488.00                   | 15,512.00-    | 02/03/22           |             |         |                    |
| 1615140-0301     | 0301-01      | Radiator, Eng               | 01  | 4,488.00      | 40,000.00      | 4,488.00                   | 35,512.00-    | 04/21/26           |             |         |                    |
| 1615140-0618     | 0618-21      | Planetary, LF               | 01  | 4,488.00      | 30,000.00      | 4,488.00                   | 25,512.00-    | 03/13/24           |             |         |                    |
| 1615140-0619     | 0619-21      | Planetary, RF               | 01  | 4,488.00      | 30,000.00      | 4,488.00                   | 25,512.00-    | 03/13/24           |             |         |                    |
| 1615140-0628     | 0628-21      | Planetary, LR               | 01  | 4,488.00      | 30,000.00      | 4,488.00                   | 25,512.00-    | 03/13/24           |             |         |                    |
| 1615140-0629     | 0629-21      | Planetary, RR               | 01  | 4,488.00      | 30,000.00      | 4,488.00                   | 25,512.00-    | 03/13/24           |             |         |                    |
| 1615140-0705     | 0705-99      | X, Generator                | 01  | 4,488.00      | 40,000.00      | 4,488.00                   | 35,512.00-    | 04/21/26           |             |         |                    |
| 1615140-0706     | 0706-01      | Left Front, Drive Motor     | 01  | 4,488.00      | 25,000.00      | 4,488.00                   | 20,512.00-    | 02/22/23           |             |         |                    |
| 1615140-0706     | 0706-02      | Right Front, Drive Motor    | 01  | 4,488.00      | 25,000.00      | 4,488.00                   | 20,512.00-    | 02/22/23           |             |         |                    |
| 1615140-0706     | 0706-03      | Left Rear, Drive Motor      | 01  | 4,488.00      | 25,000.00      | 4,488.00                   | 20,512.00-    | 02/22/23           |             |         |                    |
| 1615140-0706     | 0706-04      | Right Rear, Drive Motor     | 01  | 4,488.00      | 25,000.00      | 4,488.00                   | 20,512.00-    | 02/22/23           |             |         |                    |
| 1615140-0801     | 0801-01      | Hydraulic #1, Pump          | 01  | 4,488.00      | 15,000.00      | 4,488.00                   | 10,512.00-    | 01/14/21           |             |         |                    |
| 1615140-0801     | 0801-02      | Hydraulic #2, Pump          | 01  | 4,488.00      | 15,000.00      | 4,488.00                   | 10,512.00-    | 01/14/21           |             |         |                    |
| 1615140-0801     | 0801-03      | Hydraulic #3, Pump          | 01  | 4,488.00      | 15,000.00      | 4,488.00                   | 10,512.00-    | 01/14/21           |             |         |                    |
| 1615140-0801     | 0801-71      | Eng Cooling Fan, Pump       | 01  | 4,488.00      | 15,000.00      | 4,488.00                   | 10,512.00-    | 01/14/21           |             |         |                    |
| 1615140-0803     | 0803-01      | Hoist/Lift/Pull Down L, Cyl | 01  | 4,488.00      | 15,000.00      | 4,488.00                   | 10,512.00-    | 01/14/21           |             |         |                    |
| 1615140-0803     | 0803-02      | Hoist/Lift/Pull Down R, Cyl | 01  | 4,488.00      | 15,000.00      | 4,488.00                   | 10,512.00-    | 01/14/21           |             |         |                    |
| 1615140-0803     | 0803-21      | Bucket Left, Cyl            | 01  | 4,488.00      | 12,000.00      | 4,488.00                   | 7,512.00-     | 05/28/20           |             |         |                    |
| 1615140-0803     | 0803-22      | Bucket Right, Cyl           | 01  | 4,488.00      | 12,000.00      | 4,488.00                   | 7,512.00-     | 05/28/20           |             |         |                    |
| 1615140-0804     | 0804-01      | Pump Drive #1               | 01  | 4,488.00      | 12,000.00      | 4,488.00                   | 7,512.00-     | 05/28/20           |             |         |                    |

| Unit Number  | Description                    | Order Number | Complete Date | Completion Hr Meter |
|--------------|--------------------------------|--------------|---------------|---------------------|
| 1615140-0901 | DOG BONE PIN CRACKED.          | 203981       | 7/22/2013     | 56                  |
| 1615140-1002 | A/C NOT COOLING                | 205172       | 7/30/2013     | 66                  |
| 1615140-0201 | AIR COMP BRACKETS              | 206529       | 8/5/2013      | 85                  |
| 1615140-0101 | 100 HOUR PM                    | 206987       | 8/16/2013     | 115                 |
| 1615140-1098 | COOLANT LEAK                   | 208801       | 8/21/2013     | 121                 |
| 1615140-0201 | LOW POWER                      | 214650       | 9/29/2013     | 235                 |
| 1615140-0703 | CONVERTER PANEL BAD            | 209725       | 10/5/2013     | 248                 |
| 1615140-1098 | A/C NOT COOLING                | 210324       | 10/5/2013     | 248                 |
| 1615140-0101 | 250 HR PM                      | 211702       | 10/5/2013     | 248                 |
| 1615140-1098 | HYD LEAK ON GREASE TANK        | 212729       | 10/5/2013     | 248                 |
| 1615140-1098 | HYDRAULIC LEAK                 | 218876       | 10/27/2013    | 258                 |
| 1615140-0701 | INSTALL HORN                   | 219399       | 11/3/2013     | 283                 |
| 1615140-1098 | SWO 2013                       | 214574       | 1/3/2014      | 283                 |
| 1615140-1002 | MAKING NOISE                   | 230043       | 1/8/2014      | 328                 |
| 1615140-0701 | NEEDS RADIO                    | 202462       | 1/18/2014     | 400                 |
| 1615140-0701 | NEEDS AM/FM RADIO              | 202463       | 1/18/2014     | 400                 |
| 1615140-0901 | TOW BALL-REAR OF MACHINE       | 207431       | 1/18/2014     | 400                 |
| 1615140-1098 | SERVICE MANUAL FOR ENG         | 207859       | 1/18/2014     | 400                 |
| 1615140-1098 | CHANGE OVER GREASE FILL FITTIN | 211352       | 1/18/2014     | 400                 |
| 1615140-1001 | WINDSHIELD CRACKED             | 230028       | 1/23/2014     | 410                 |
| 1615140-0101 | 250 HR PM                      | 236100       | 2/19/2014     | 419                 |
| 1615140-1098 | CHANGE FUEL FILTERS            | 239327       | 2/27/2014     | 419                 |
| 1615140-0701 | BATTERYS BAD                   | 239263       | 3/27/2014     | 420                 |
| 1615140-1098 | 2 WAY RADIO BAD                | 250339       | 5/8/2014      | 679                 |
| 1615140-1098 | GREASE ACCUMULATION WC         | 219851       | 5/19/2014     | 429                 |
| 1615140-1002 | MOUNTING BOLTS BROKEN ON COMP  | 231068       | 5/19/2014     | 429                 |
| 1615140-1098 | GREASE FAULTS                  | 232145       | 5/19/2014     | 429                 |
| 1615140-0101 | LEVEL 1 INSPECTION             | 253327       | 5/24/2014     | 497                 |
| 1615140-1001 | CONDENSOR FANS BAD             | 253681       | 5/29/2014     | 432                 |
| 1615140-0201 | ENGINE OIL LEAK                | 250549       | 7/11/2014     | 468                 |
| 1615140-1098 | REPAIR RT REAR STEP            | 261765       | 7/15/2014     | 468                 |
| 1615140-0101 | BI-WEEKLY PM -2014             | 229472       | 7/18/2014     | 495                 |
| 1615140-0805 | HYDRAULIC LEAKS                | 261557       | 8/4/2014      | 511                 |

|              |                                |        |            |      |
|--------------|--------------------------------|--------|------------|------|
| 1615140-0701 | CONDENSER FANS NOT WORKING     | 261713 | 8/4/2014   | 511  |
| 1615140-0101 | LEVEL 1 INSPECTION             | 264348 | 8/4/2014   | 511  |
| 1615140-1098 | GREASE LINE BLOWN              | 275286 | 10/6/2014  | 552  |
| 1615140-1001 | ACCIDENT DAMAGE FRONT WINDOW   | 275574 | 10/13/2014 | 570  |
| 1615140-0101 | LEVEL 1 INSPECTION             | 276214 | 10/13/2014 | 570  |
| 1615140-1098 | INSTALL SHUT DOWN SYSTEM       | 275171 | 11/3/2014  | 627  |
| 1615140-1098 | FIRE SUPPRESSION DISCHARGE     | 277863 | 11/3/2014  | 627  |
| 1615140-1001 | LEFT DOOR HANDLE LOOSE         | 277409 | 11/3/2014  | 629  |
| 1615140-1001 | RIGHT JOY STICK LOOSE          | 277410 | 11/3/2014  | 629  |
| 1615140-0103 | SWO 1615140 (2014)             | 229751 | 12/30/2014 | 629  |
| 1615140-0701 | LADDER LIGHT SWITCH BROKE      | 276538 | 2/12/2015  | 638  |
| 1615140-1098 | CHANGE OUT GREASE FITTING      | 279457 | 2/14/2015  | 638  |
| 1615140-1098 | FIRE SUPPRESSION NOT WORKING   | 298491 | 3/3/2015   | 638  |
| 1615140-0701 | REPLACE BATT                   | 300722 | 3/16/2015  | 642  |
| 1615140-1098 | GREASE FAULT/LEAK              | 300742 | 3/17/2015  | 641  |
| 1615140-1001 | ADD CARGO HOLDER               | 299528 | 3/19/2015  | 641  |
| 1615140-0901 | FAB ROCK GUARD FOR BUCKET      | 304461 | 4/13/2015  | 703  |
| 1615140-0101 | PM                             | 277515 | 6/23/2015  | 719  |
| 1615140-0706 | DCP#1 CONNECTOR BAD            | 327576 | 9/8/2015   | 744  |
| 1615140-0703 | #1 DRIVE COOLER PUMP BAD       | 327991 | 9/24/2015  | 745  |
| 1615140-0701 | LIFT SENSOR FAULTING           | 333753 | 10/15/2015 | 772  |
| 1615140-1002 | REPLACE AIR COMPRESSOR         | 334203 | 10/20/2015 | 789  |
| 1615140-0103 | SWO 1615140 (2015)             | 287735 | 12/30/2015 | 881  |
| 1615140-0101 | LEVEL 1 PM                     | 402395 | 1/7/2016   | 889  |
| 1615140-1098 | REPAIRS FROM INSPECTION        | 351637 | 2/15/2016  | 903  |
| 1615140-1001 | REPLACE SEAT BELT              | 351900 | 2/25/2016  | 923  |
| 1615140-1001 | A/C INOP                       | 352638 | 2/27/2016  | 920  |
| 1615140-0901 | ACCIDENT REPAIR TO STEP        | 353544 | 2/29/2016  | 971  |
| 1615140-0703 | CLIMATE CONTROL INOP           | 353614 | 3/7/2016   | 973  |
| 1615140-0703 | DRIVE #2 COOLING PUMP LOST DAT | 352109 | 3/15/2016  | 970  |
| 1615140-0701 | BULB OUT ON THE STROBE LIGHT   | 354392 | 3/15/2016  | 970  |
| 1615140-0101 | ENGINE OIL CHANGE (EOC)        | 355728 | 3/22/2016  | 1002 |
| 1615140-1098 | RIGHT REAR STEP TORE OFF       | 356972 | 4/4/2016   | 1002 |
| 1615140-0101 | LEVEL 1 PM                     | 339746 | 4/13/2016  | 1006 |

|              |                               |  |        |            |      |
|--------------|-------------------------------|--|--------|------------|------|
| 1615140-0101 | LEVEL 2 PM                    |  | 359648 | 4/13/2016  | 1006 |
| 1615140-0703 | PARKING LIGHT SWITCH INOP     |  | 358379 | 5/1/2016   | 1066 |
| 1615140-1001 | ADD INTERNAL SPEAKER          |  | 369759 | 6/19/2016  | 1209 |
| 1615140-0101 | PM                            |  | 372842 | 7/14/2016  | 1277 |
| 1615140-1098 | REPLACE FUEL FILTERS          |  | 373602 | 7/25/2016  | 1337 |
| 1615140-0201 | ENGINE CODE                   |  | 367617 | 7/25/2016  | 1520 |
| 1615140-0201 | QUIT RUNNING AT STOCK PILE    |  | 376557 | 8/7/2016   | 1520 |
| 1615140-1001 | A/C QUILTS WHEN HOT           |  | 374788 | 8/18/2016  | 1530 |
| 1615140-0101 | PM                            |  | 376269 | 8/18/2016  | 1530 |
| 1615140-1098 | INSTALL POWER STEP            |  | 356555 | 8/19/2016  | 1530 |
| 1615140-0701 | BACKUP ALARM NOT WORKING      |  | 378465 | 8/22/2016  | 1555 |
| 1615140-0701 | LEFT REAR LIGHT OUT           |  | 378485 | 8/22/2016  | 1555 |
| 1615140-0101 | LEVEL 1 PM                    |  | 376268 | 8/23/2016  | 1520 |
| 1615140-1001 | AC NOT WORKING                |  | 378524 | 8/29/2016  | 1651 |
| 1615140-0101 | PM                            |  | 384499 | 10/7/2016  | 1884 |
| 1615140-1098 | AC REPAIR                     |  | 379282 | 10/13/2016 | 1916 |
| 1615140-1002 | REPLACE AIR COMPRESSOR        |  | 386841 | 10/13/2016 | 1916 |
| 1615140-1002 | AIR COMPRESSOR LEAKING OIL    |  | 388890 | 10/25/2016 | 1963 |
| 1615140-0101 | LEVEL 3 PM                    |  | 389000 | 10/31/2016 | 2001 |
| 1615140-1002 | VENT HOSE TORN                |  | 390066 | 10/31/2016 | 2001 |
| 1615140-1098 | GREASE LINE BUSTED            |  | 393226 | 11/26/2016 | 2266 |
| 1615140-0201 | ENGINE DERATE / ENGINE ALARM  |  | 393810 | 11/26/2016 | 2266 |
| 1615140-0101 | PM                            |  | 392594 | 11/28/2016 | 2321 |
| 1615140-1098 | ROLL BACK STOP BAD            |  | 393846 | 12/25/2016 | 2464 |
| 1615140-1001 | INSTALL MINE AIR A/C          |  | 395041 | 12/31/2016 | 2554 |
| 1615140-1001 | REPLACE WINDSHIELD            |  | 401310 | 1/1/2017   | 2562 |
| 1615140-0103 | SWO 1615140 (2016)            |  | 344775 | 1/4/2017   | 2554 |
| 1615140-0101 | PM                            |  | 402394 | 1/6/2017   | 2587 |
| 1615140-1098 | BACKUP CAMERA MONITOR BAD     |  | 403850 | 1/18/2017  | 2790 |
| 1615140-1002 | LEAK ON COMP. DISCHARGE LINE  |  | 400347 | 1/30/2017  | 2921 |
| 1615140-1001 | INCIDENT / WINDSHIELD BROKE   |  | 407770 | 1/31/2017  | 2920 |
| 1615140-0101 | PM                            |  | 407360 | 2/10/2017  | 2921 |
| 1615140-1001 | HEATER CONTROL VALVE          |  | 405132 | 2/21/2017  | 3226 |
| 1615140-1001 | LIGHT INSIDE PARKE BRAKE KNOB |  | 405207 | 2/21/2017  | 3226 |

|              |                                |  |        |           |      |
|--------------|--------------------------------|--|--------|-----------|------|
| 1615140-0101 | PM                             |  | 411529 | 2/21/2017 | 3226 |
| 1615140-0618 | LEFT FRONT FINAL COVER LEAKING |  | 399816 | 2/22/2017 | 3226 |
| 1615140-0101 | LEVEL 4 PM                     |  | 410146 | 2/22/2017 | 3226 |
| 1615140-1001 | FABR GAURD ABOVE WINDSHIELD    |  | 412101 | 2/23/2017 | 3226 |
| 1615140-0201 | REPLACE FUEL FILTERS           |  | 407676 | 2/27/2017 | 3017 |
| 1615140-0701 | REPLACE BEACON LIGHT           |  | 412053 | 2/27/2017 | 3226 |
| 1615140-1001 | POWER STEP ALARM               |  | 402846 | 2/27/2017 | 3318 |
| 1615140-1001 | MIRRORS NEED REPLACING         |  | 405201 | 2/27/2017 | 3318 |
| 1615140-0101 | PM                             |  | 414275 | 3/14/2017 | 3464 |
| 1615140-1002 | AIR COMPRESSOR BAD             |  | 416399 | 3/23/2017 | 3586 |
| 1615140-0201 | ALTERNATOR BELT BROKE          |  | 417352 | 3/28/2017 | 3659 |
| 1615140-0703 | DATA LINK CODES                |  | 407507 | 4/1/2017  | 3698 |
| 1615140-1098 | FUEL FILTERS                   |  | 416996 | 4/3/2017  | 3769 |
| 1615140-1002 | BRAKE AIR RELIEF VALVE         |  | 413199 | 4/4/2017  | 3769 |
| 1615140-1098 | AUTOLUBE TANK PROBLEMS         |  | 414867 | 4/4/2017  | 3769 |
| 1615140-0702 | HIGH VOLTAGE GROUND FAULT      |  | 418498 | 4/4/2017  | 3769 |
| 1615140-0101 | PM                             |  | 418023 | 4/11/2017 | 3769 |
| 1615140-0101 | LEVEL 1 PM                     |  | 418024 | 4/11/2017 | 3769 |
| 1615140-0695 | FRONT RIGHT TIRE BAD           |  | 419868 | 4/11/2017 | 3917 |
| 1615140-0805 | HYD LEAK                       |  | 417034 | 4/18/2017 | 4040 |
| 1615140-1098 | GREASE FAULT                   |  | 420820 | 4/18/2017 | 4040 |
| 1615140-1001 | RIGHT HAND JOY STICK BAD       |  | 419811 | 4/20/2017 | 4067 |
| 1615140-1098 | FAB INSPECTION LADDER          |  | 414797 | 5/2/2017  | 4129 |
| 1615140-1001 | ANTENNAS BROKEN                |  | 423214 | 5/2/2017  | 4129 |
| 1615140-1098 | FUEL FILTERS                   |  | 421108 | 5/3/2017  | 4127 |
| 1615140-0101 | PM                             |  | 421447 | 5/3/2017  | 4127 |
| 1615140-0201 | ADJUST VALVES AND INJECTORS    |  | 421446 | 5/24/2017 | 4127 |
| 1615140-0201 | REPLACE VALVE/BROKE SPRING     |  | 423867 | 5/24/2017 | 4149 |
| 1615140-1098 | R CENTER LADDER FAB            |  | 426471 | 5/25/2017 | 4148 |
| 1615140-1001 | COMPUTER SCREEN ROLLS          |  | 429467 | 6/16/2017 | 4366 |
| 1615140-1002 | AIR PRESSURE RELIEF VALVE BAD  |  | 429644 | 6/16/2017 | 4366 |
| 1615140-0101 | LEVEL 2 PM                     |  | 429851 | 6/16/2017 | 4366 |
| 1615140-0101 | PM                             |  | 430429 | 6/16/2017 | 4366 |
| 1615140-1002 | AIR LINE LEAKING               |  | 430119 | 6/22/2017 | 4367 |

|              |                           |        |            |      |
|--------------|---------------------------|--------|------------|------|
| 1615140-0101 | PRE-PM INSPECTION (2017)  | 413176 | 12/12/2017 | 4431 |
| 1615140-0103 | SWO 1615140 (2017)        | 402595 | 12/14/2017 | 4431 |
| 1615140-0695 | REPLACE LEFT FRONT TIRE   | 454289 | 12/14/2017 | 4432 |
| 1615140-1002 | PARK BRAKES WONT RELEASE  | 465026 | 4/2/2018   | 4442 |
| 1615140-1002 | A/C NOT WORKING           | 476866 | 4/11/2018  | 4446 |
| 1615140-0102 | DATA LINK MISSING         | 431603 | 4/26/2018  | 4479 |
| 1615140-0619 | R/F DRIVE MOTOR OVER TEMP | 477267 | 4/26/2018  | 4479 |
| 1615140-1001 | REPLACE A/C LINES         | 446716 | 5/5/2018   | 4479 |
| 1615140-0805 | HYDRAULIC LEAK            | 479239 | 5/5/2018   | 4479 |
| 1615140-0701 | ALTERNATOR BAD            | 495348 | 8/18/2018  | 4503 |
| 1615140-0201 | REPLACE FUEL FILTERS      | 476569 |            | 0    |

COMPANY NAME : LIBERTY FUELS COMPANY

CUSTOMER EQUIP NUM : 161540

COMPARTMENT NAME : ENGINE LEFT

SERIAL NUMBER : 2216\_LIBERTY

MANUFACTURER : LETOURNEAU

MODEL : L1150

JOB SITE :

EXT WARR NUMBER :

FAX :

PHONE :

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 6

SHOP JOB NUM :

COMP SERIAL NUM :

COMPARTMENT MODEL :

COMP MANUFACTURER :

SAMPLE LABEL NUM :

FLUID BRAND/WEIGHT : CAT15W-40

FLUID TYPE : OIL

EXT WARR EXPIRE DATE :

FUEL CONSUMED :

**Puckett**

100 Caterpillar Drive

P.O. Box 321033

Flowood, MS 39232

(769)777-7270

puckett.cat.com

| LAB CONTROL NUMBER  | SAMPLE DATE                                                                                                                                                                                                                                                                                                                                         | PROCESS DATE | EQUIPMENT METER | METER ON FLUID | FLUID CHANGED | MAKE UP FLUID | MAKE UP FLUID UNITS | FILTER CHANGED |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|----------------|---------------|---------------|---------------------|----------------|
| D440-47194-0023     | 07-Jul-2017                                                                                                                                                                                                                                                                                                                                         | 13-Jul-2017  | 4421 HR         | 55 HR          | No            |               |                     | No             |
| No Action Required  | READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.                                                                                                                                                                                                                                                                                       |              |                 |                |               |               |                     |                |
| D440-47172-0017     | 16-Jun-2017                                                                                                                                                                                                                                                                                                                                         | 21-Jun-2017  | 4366 HR         | 597 HR         | Yes           |               |                     | Yes            |
| Monitor Compartment | POTASSIUM LEVEL HAS IMPROVED BUT REMAINS HIGH. OTHER READINGS APPEAR NORMAL. OIL AND FILTER CHANGE NOTED. RESAMPLE IN 250 HOURS TO MONITOR.                                                                                                                                                                                                         |              |                 |                |               |               |                     |                |
| D440-47159-0010     | 05-Jun-2017                                                                                                                                                                                                                                                                                                                                         | 08-Jun-2017  | 4182 HR         | 413 HR         | No            |               |                     | No             |
| Monitor Compartment | POTASSIUM LEVEL IS HIGH. OTHER READINGS APPEAR TO BE NORMAL. SODIUM, POTASSIUM CAN BE RESIDUE OF WATER/CONDENSATE REMOVED BY VENTING, OR SOME ADDITIVES, GREASES. OIL AND/OR FILTER WAS NOT CHANGED AT TIME OF SAMPLE. SUGGEST CHANGE OIL AND FILTER (IF NOT ALREADY DONE) DUE TO HOURS ON OIL AND RESAMPLE IN HALF TEH NORMAL INTERVAL TO MONITOR. |              |                 |                |               |               |                     |                |
| D440-47096-0003     | 03-Apr-2017                                                                                                                                                                                                                                                                                                                                         | 06-Apr-2017  | 3769 HR         | 305 HR         | Yes           |               |                     | Yes            |
| No Action Required  | READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.                                                                                                                                                                                                                                                                                       |              |                 |                |               |               |                     |                |

| Wear Metals (ppm) | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | K  | B | Mo | Ni | Ag | Ti | V | Mn | Cd | Ca   | Mg | Zn   | P    | Ba |
|-------------------|----|----|----|----|----|----|----|----|----|---|----|----|----|----|---|----|----|------|----|------|------|----|
| D440-47194-0023   | 1  | 4  | 0  | 2  | 2  | 0  | 3  | 4  | 14 | 3 | 2  | 0  | 0  | 0  | 0 | 0  | 0  | 2484 | 9  | 1225 | 1073 | 0  |
| D440-47172-0017   | 1  | 7  | 0  | 0  | 3  | 1  | 3  | 9  | 28 | 2 | 3  | 0  | 0  | 0  | 0 | 0  | 0  | 2264 | 9  | 1124 | 963  | 0  |
| D440-47159-0010   | 1  | 0  | 0  | 0  | 2  | 0  | 0  | 3  | 37 | 0 | 3  | 0  | 0  | 0  | 0 | 0  | 0  | 2268 | 9  | 1137 | 1024 | 0  |
| D440-47096-0003   | 1  | 6  | 0  | 2  | 2  | 0  | 3  | 3  | 2  | 3 | 1  | 0  | 0  | 0  | 0 | 0  | 0  | 2083 | 10 | 1051 | 913  | 0  |

| Oil Condition / Particle Count (ct/ml) | ST | OXI | NIT | SUL | W | A | F | V100 | PGC    |
|----------------------------------------|----|-----|-----|-----|---|---|---|------|--------|
| D440-47194-0023                        | 7  | 12  | 5   | 18  | N | N | N | 13.8 |        |
| D440-47172-0017                        | 16 | 13  | 5   | 20  | N | N | N | 13.5 | 0.0034 |
| D440-47159-0010                        | 6  | 12  | 4   | 18  | N | N | N | 13.8 | 0.0057 |
| D440-47096-0003                        | 13 | 13  | 5   | 21  | N | N | N | 13.7 |        |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulfur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PV = Particle Volume Indicator

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

COMPANY NAME : LIBERTY FUELS COMPANY  
CUSTOMER EQUIP NUM : 1615140  
COMPARTMENT NAME : RADIATOR LEFT  
SERIAL NUMBER : 2216\_LIBERTY  
MANUFACTURER : LETOURNEAU  
MODEL : L1150  
JOB SITE :  
EXT WARR NUMBER :  
FAX :  
PHONE :  
SAMPLE TYPE: COOLANT - RADI\_MET  
SAMPLE SHIP TIME (days) : 4

SHOP JOB NUM : 413176  
COMP SERIAL NUM :  
COMPARTMENT MODEL :  
COMP MANUFACTURER :  
SAMPLE LABEL NUM :  
FLUID BRAND/WEIGHT :  
FLUID TYPE :  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :

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| LAB CONTROL NUMBER | SAMPLE DATE                                                                                                                                                                                                          | PROCESS DATE | EQUIPMENT METER | METER ON FLUID | FLUID CHANGED | MAKE UP FLUID | MAKE UP FLUID UNITS |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|----------------|---------------|---------------|---------------------|
| D440-47159-1002    | 04-Jun-2017                                                                                                                                                                                                          | 08-Jun-2017  | 4182 HR         | 4182 HR        | Unknown       |               |                     |
| No Action Required | ALL ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL.                                                                                         |              |                 |                |               |               |                     |
| D440-47128-1003    | 02-May-2017                                                                                                                                                                                                          | 08-May-2017  | 4127 HR         | 4127 HR        | Unknown       |               |                     |
| No Action Required | SOME SOLIDS ARE PRESENT ALL OTHER TESTS APPEAR NORMAL. SAMPLE AGAIN AT THE REGULAR INTERVAL.                                                                                                                         |              |                 |                |               |               |                     |
| D440-47055-1007    | 21-Feb-2017                                                                                                                                                                                                          | 24-Feb-2017  | 3226 HR         | 3226 HR        | Unknown       |               |                     |
| No Action Required | PARTIALLY MAGNETIC SOLIDS MAY INDICATE LOCALIZED HOT SPOTS IN THE COOLING SYSTEM. ALL OTHER ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL. |              |                 |                |               |               |                     |
| D440-47011-1007    | 06-Jan-2017                                                                                                                                                                                                          | 11-Jan-2017  | 2587 HR         | 2587 HR        | No            |               |                     |
| No Action Required | ALL ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL.                                                                                         |              |                 |                |               |               |                     |

| Data            | BP  | FP  | GL | pH  | CON  |
|-----------------|-----|-----|----|-----|------|
| D440-47159-1002 | 107 | -38 | 51 | 8.2 | 5689 |
| D440-47128-1003 | 107 | -38 | 51 | 8.3 | 5712 |
| D440-47055-1007 | 108 | -41 | 52 | 8.4 | 6397 |
| D440-47011-1007 | 108 | -41 | 52 | 8.3 | 6119 |

| Data            | NO2 | Odor | Color   | App   | Foam | Oil  | PAmt  | PApp     | PCol    | PProp   |
|-----------------|-----|------|---------|-------|------|------|-------|----------|---------|---------|
| D440-47159-1002 | 553 | norm | magenta | clear | norm | none | none  |          |         |         |
| D440-47128-1003 | 642 | norm | red     | clear | norm | none | trace | granular | brn sol | non-mag |
| D440-47055-1007 | 984 | norm | orange  | clear | norm | none | trace | granular | brn sol | mag     |
| D440-47011-1007 | 872 | norm | orange  | clear | norm | none | none  |          |         |         |

Al = Aluminum, Cu = Copper, Fe = Iron, K = Potassium, Na = Sodium, Pb = Lead, Sn = Tin, V = Vanadium, Zn = Zinc, B03 = Borate, CaC = Ca as CaCO3, MgC = Mg as CaCO3, MoO4 = Molybdate, PO4 = Phosphate, SiO3 = Silicate, TH = Total Hardness, CL = Chloride, CO3 = Carbonate, GLO = Glycolate, NO2 = Nitrite, NO3 = Nitrate, PO4 = Phosphate, SAC = Sebacic Acid, SO4 = Sulfate, TT = Tolytrazole, BP = Boil Point(°C), GL = Glycol, CON = Conductivity, App = Appearance, PAmt = Precipitate Amount, PApp = Precipitate Appearance, PCol = Precipitate Color, PProp = Precipitate Property, CType = Coolant Type

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COMPANY NAME : LIBERTY FUELS COMPANY

CUSTOMER EQUIP NUM : 161540

COMPARTMENT NAME : HYDRAULIC SYSTEM

SERIAL NUMBER : 2216 LIBERTY

MANUFACTURER : LETOURNEAU

MODEL : L1150

JOB SITE :

EXT WARR NUMBER :

SHOP JOB NUM :

COMP SERIAL NUM :

COMPARTMENT MODEL :

COMP MANUFACTURER :

SAMPLE LABEL NUM :

FLUID BRAND/WEIGHT : CAT10W

FLUID TYPE : OIL

EXT WARR EXPIRE DATE :

FUEL CONSUMED :

LAB CONTROL NUMBER

SAMPLE DATE

PROCESS DATE

EQUIPMENT METER

METER ON FLUID

FLUID CHANGED

MAKE UP FLUID

MAKE UP FLUID UNITS

FILTER CHANGED

D440-47194-0037 07-Jul-2017 13-Jul-2017 4421 HR 2420 HR No No

No Action Required

READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.

D440-47159-0024 04-Jun-2017 08-Jun-2017 4182 HR 2181 HR No No

No Action Required

READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.

D440-47128-0032 02-May-2017 08-May-2017 4127 HR 2128 HR No No

No Action Required

NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.

D440-47096-0018 03-Apr-2017 06-Apr-2017 3769 HR 1768 HR No No

Monitor Compartment

ISO PARTICLE COUNT ANALYSIS IS ABOVE THE RECOMMENDED 18/15 LEVEL WITH AN INCREASE IN LARGER PARTICLES. OTHER READINGS APPEAR TO BE NORMAL. SUGGEST RESAMPLE IN HALF THE NORMAL INTERVAL AND AT THAT TIME; CUT OPEN FILTER TO INSPECT FOR DEBRIS AND PARTICLES.

| Wear Metals (ppm) | Cu  | Fe | Cr | Al | Pb | Sn | Si | Na | K | B  | Mo | Ni | Ag | Ti | V | Mn | Cd | Ca   | Mg | Zn   | P    | Ba |
|-------------------|-----|----|----|----|----|----|----|----|---|----|----|----|----|----|---|----|----|------|----|------|------|----|
| D440-47194-0037   | 784 | 4  | 0  | 2  | 1  | 0  | 3  | 2  | 2 | 14 | 1  | 0  | 0  | 0  | 0 | 0  | 0  | 2724 | 10 | 1221 | 1006 | 0  |
| D440-47159-0024   | 785 | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 6 | 11 | 0  | 0  | 1  | 0  | 0 | 0  | 0  | 2478 | 8  | 1123 | 931  | 0  |
| D440-47128-0032   | 759 | 4  | 0  | 1  | 1  | 0  | 4  | 3  | 1 | 14 | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 2502 | 8  | 1109 | 893  | 0  |
| D440-47096-0018   | 888 | 5  | 0  | 2  | 1  | 0  | 5  | 3  | 1 | 18 | 0  | 0  | 0  | 1  | 0 | 0  | 0  | 2558 | 11 | 1128 | 930  | 0  |

| Oil Condition / Particle Count (c/ml) | ST | OXI | NIT | SUL | W | A | V100 | ISO      | 4μ    | 6μ   | 10μ  | 14μ | 18μ | 21μ | 38μ | 50μ |
|---------------------------------------|----|-----|-----|-----|---|---|------|----------|-------|------|------|-----|-----|-----|-----|-----|
| D440-47194-0037                       | 0  | 5   | 5   | 14  | N | N | 6.5  | 18/14/12 | 2274  | 159  | 50   | 26  | 16  | 11  | 2   | 1   |
| D440-47159-0024                       | 0  | 5   | 5   | 14  | N | N | 6.5  | 21/18/12 | 16804 | 1592 | 98   | 30  | 17  | 10  | 2   | 1   |
| D440-47128-0032                       | 0  | 5   | 5   | 15  | N | N | 6.5  | 20/15/12 | 5704  | 304  | 75   | 36  | 19  | 13  | 2   | 1   |
| D440-47096-0018                       | 0  | 5   | 4   | 14  | N | N | 6.6  | 22/20/16 | 25545 | 5343 | 1145 | 398 | 173 | 110 | 21  | 8   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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COMPANY NAME : LIBERTY FUELS COMPANY  
CUSTOMER EQUIP NUM : 1615140  
COMPARTMENT NAME : TRANSFER GEARS  
SERIAL NUMBER : 2216\_LIBERTY  
MANUFACTURER : LETOURNEAU  
MODEL : L1150  
JOB SITE :  
EXT WARR NUMBER :  
SAMPLE TYPE: OIL  
SAMPLE SHIP TIME (days) : 4

SHOP JOB NUM : 413176  
COMP SERIAL NUM :  
COMPARTMENT MODEL :  
COMP MANUFACTURER :  
SAMPLE LABEL NUM :  
FLUID BRAND/WEIGHT : 75W-140  
FLUID TYPE : OIL  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :



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| LAB CONTROL NUMBER | SAMPLE DATE | PROCESS DATE | EQUIPMENT METER | METER ON FLUID | FLUID CHANGED | MAKE UP FLUID | MAKE UP FLUID UNITS | FILTER CHANGED |
|--------------------|-------------|--------------|-----------------|----------------|---------------|---------------|---------------------|----------------|
| D440-47159-0053    | 04-Jun-2017 | 08-Jun-2017  | 4182 HR         | 2181 HR        | No            | No            | No                  | No             |
| No Action Required |             |              |                 |                |               |               |                     |                |
| D440-47128-0060    | 02-May-2017 | 08-May-2017  | 4127 HR         | 2126 HR        | No            | No            | No                  | No             |
| No Action Required |             |              |                 |                |               |               |                     |                |
| D440-47096-0030    | 03-Apr-2017 | 06-Apr-2017  | 3769 HR         | 1768 HR        | No            | No            | No                  | No             |
| No Action Required |             |              |                 |                |               |               |                     |                |
| D440-47011-0055    | 06-Jan-2017 | 11-Jan-2017  | 2587 HR         | 586 HR         | No            | No            | No                  | No             |
| No Action Required |             |              |                 |                |               |               |                     |                |

| Wear Metals (ppm) | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | K    | B    | Mo | Ni | Ag | Ti | V | Mn | Cd | Ca  | Mg | Zn | P   | Ba |
|-------------------|----|----|----|----|----|----|----|----|------|------|----|----|----|----|---|----|----|-----|----|----|-----|----|
| D440-47159-0053   | 27 | 21 | 0  | 0  | 0  | 0  | 1  | 6  | 1161 | 1087 | 1  | 0  | 0  | 0  | 0 | 0  | 0  | 120 | 3  | 60 | 610 | 0  |
| D440-47128-0060   | 25 | 21 | 0  | 0  | 0  | 0  | 1  | 8  | 1169 | 1012 | 1  | 0  | 0  | 0  | 0 | 0  | 0  | 111 | 3  | 58 | 580 | 0  |
| D440-47096-0030   | 25 | 17 | 0  | 0  | 0  | 0  | 1  | 7  | 1193 | 1081 | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 110 | 3  | 53 | 589 | 0  |
| D440-47011-0055   | 35 | 9  | 0  | 0  | 1  | 0  | 2  | 3  | 274  | 323  | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 114 | 4  | 63 | 736 | 0  |

| Oil Condition / Particle Count (c/ml) | ST | OXI | NIT | SUL | W | V100 | ISO     | 4μ    | 6μ    | 10μ  | 14μ  | 18μ | 21μ | 38μ | 50μ |
|---------------------------------------|----|-----|-----|-----|---|------|---------|-------|-------|------|------|-----|-----|-----|-----|
| D440-47159-0053                       | 0  | 6   | 3   | 21  | N | 16.5 | 2219/15 | 31152 | 4861  | 772  | 269  | 130 | 82  | 15  | 5   |
| D440-47128-0060                       | 0  | 6   | 3   | 22  | N | 16.6 | 2322/18 | 65480 | 24217 | 5410 | 1894 | 935 | 645 | 192 | 95  |
| D440-47096-0030                       | 0  | 6   | 3   | 21  | N | 16.7 | 2217/13 | 22900 | 813   | 107  | 46   | 26  | 18  | 6   | 3   |
| D440-47011-0055                       | 0  | 8   | 4   | 22  | N | 21.0 | 2218/14 | 25403 | 2272  | 349  | 109  | 53  | 38  | 12  | 6   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PFI = Particle Quantifying Index, NAW = Salt Water, FL PI = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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COMPANY NAME : LIBERTY FUELS COMPANY

CUSTOMER EQUIP NUM : 1615140

COMPARTMENT NAME : FINAL DRIVE FRONT RIGHT

SERIAL NUMBER : 2216\_LIBERTY

MANUFACTURER : LETOURNEAU

MODEL : L1150

JOB SITE :

EXT WARR NUMBER :

SHOP JOB NUM : 413176

COMP SERIAL NUM :

COMPARTMENT MODEL :

COMP MANUFACTURER :

SAMPLE LABEL NUM :

FLUID BRAND/WEIGHT : CAT/60

FLUID TYPE : OIL

EXT WARR EXPIRE DATE :

FUEL CONSUMED :

FAX :

PHONE :

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days) : 36

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| LAB CONTROL NUMBER | SAMPLE DATE                                                                     | PROCESS DATE | EQUIPMENT METER | METER ON FLUID | FLUID CHANGED | MAKE UP FLUID | MAKE UP FLUID UNITS | FILTER CHANGED |
|--------------------|---------------------------------------------------------------------------------|--------------|-----------------|----------------|---------------|---------------|---------------------|----------------|
| D440-47194-0102    | 07-Jun-2017                                                                     | 13-Jul-2017  | 4421 HR         | 652 HR         | No            |               |                     |                |
| No Action Required | READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.                   |              |                 |                |               |               |                     |                |
| D440-47128-0057    | 02-May-2017                                                                     | 08-May-2017  | 4127 HR         | 358 HR         | No            |               |                     |                |
| No Action Required | NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.                          |              |                 |                |               |               |                     |                |
| D440-47096-0027    | 03-Apr-2017                                                                     | 06-Apr-2017  | 3769 HR         | 543 HR         | Yes           |               |                     | No             |
| No Action Required | READINGS APPEAR NORMAL. OIL CHANGE NOTED. CONTINUE NORMALLY SCHEDULED SAMPLING. |              |                 |                |               |               |                     |                |
| D440-47055-0045    | 21-Feb-2017                                                                     | 24-Feb-2017  | 3226 HR         | 639 HR         | Yes           |               |                     |                |
| No Action Required | READINGS APPEAR NORMAL. OIL CHANGE NOTED. CONTINUE NORMALLY SCHEDULED SAMPLING. |              |                 |                |               |               |                     |                |

| Wear Metals (ppm) | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | K | B  | Mo | Ni | Ag | Ti | V | Mn | Cd | Ca  | Mg | Zn | P   | Ba |
|-------------------|----|----|----|----|----|----|----|----|---|----|----|----|----|----|---|----|----|-----|----|----|-----|----|
| D440-47194-0102   | 0  | 4  | 0  | 0  | 0  | 0  | 1  | 2  | 1 | 51 | 0  | 0  | 0  | 0  | 0 | 0  | 0  | 107 | 1  | 9  | 237 | 0  |
| D440-47128-0057   | 1  | 9  | 0  | 0  | 0  | 0  | 3  | 3  | 0 | 80 | 0  | 1  | 0  | 0  | 0 | 0  | 0  | 224 | 1  | 10 | 240 | 0  |
| D440-47096-0027   | 1  | 10 | 0  | 0  | 0  | 1  | 3  | 3  | 1 | 79 | 3  | 2  | 0  | 0  | 0 | 0  | 0  | 212 | 1  | 15 | 238 | 0  |
| D440-47055-0045   | 1  | 15 | 0  | 0  | 2  | 1  | 5  | 3  | 1 | 91 | 2  | 4  | 0  | 0  | 0 | 0  | 0  | 274 | 0  | 26 | 293 | 0  |

| Oil Condition / Particle Count (ct/ml) | ST | OXI | NIT | SUL | W | V100 | ISO      | 4μ    | 6μ    | 10μ  | 14μ  | 18μ | 21μ | 38μ | 50μ |
|----------------------------------------|----|-----|-----|-----|---|------|----------|-------|-------|------|------|-----|-----|-----|-----|
| D440-47194-0102                        | 0  | 5   | 4   | 15  | N | 21.3 | 23/22/17 | 58005 | 22793 | 3763 | 691  | 162 | 67  | 3   | 1   |
| D440-47128-0057                        | 0  | 8   | 4   | 15  | N | 26.0 | 23/22/18 | 57171 | 30457 | 7095 | 1564 | 359 | 148 | 5   | 1   |
| D440-47096-0027                        | 0  | 9   | 4   | 18  | N | 25.9 | 23/22/18 | 63253 | 35443 | 8307 | 1491 | 283 | 116 | 6   | 2   |
| D440-47055-0045                        | 0  | 9   | 4   | 15  | N | 26.6 | 23/22/17 | 52732 | 28253 | 5644 | 1134 | 259 | 93  | 3   | 1   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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COMPANY NAME : LIBERTY FUELS COMPANY  
CUSTOMER EQUIP NUM : 1615140  
COMPARTMENT NAME : FINAL DRIVE FRONT LEFT  
SERIAL NUMBER : 2216\_LIBERTY  
MANUFACTURER : LETOURNEAU  
MODEL : L1150  
JOB SITE :  
EXT WARR NUMBER :  
FAX :  
PHONE :  
SAMPLE TYPE : OIL  
SAMPLE SHIP TIME (days) : 4

SHOP JOB NUM : 413176  
COMP SERIAL NUM :  
COMPARTMENT MODEL :  
COMP MANUFACTURER :  
SAMPLE LABEL NUM :  
FLUID BRAND/WEIGHT : 60  
FLUID TYPE : OIL  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :

100 Caterpillar Drive  
P.O. Box 321033  
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| LAB CONTROL NUMBER                                                              | SAMPLE DATE | PROCESS DATE | EQUIPMENT METER | METER ON FLUID | FLUID CHANGED | MAKE UP FLUID | MAKE UP FLUID UNITS | FILTER CHANGED |
|---------------------------------------------------------------------------------|-------------|--------------|-----------------|----------------|---------------|---------------|---------------------|----------------|
| D440-47159-0049                                                                 | 04-Jun-2017 | 08-Jun-2017  | 4182 HR         | 413 HR         | No            |               |                     |                |
| READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.                   |             |              |                 |                |               |               |                     |                |
| No Action Required                                                              |             |              |                 |                |               |               |                     |                |
| D440-47128-0056                                                                 | 02-May-2017 | 08-May-2017  | 4127 HR         | 358 HR         | No            |               |                     |                |
| NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.                          |             |              |                 |                |               |               |                     |                |
| No Action Required                                                              |             |              |                 |                |               |               |                     |                |
| D440-47096-0026                                                                 | 03-Apr-2017 | 06-Apr-2017  | 3769 HR         | 543 HR         | Yes           |               |                     | No             |
| READINGS APPEAR NORMAL. OIL CHANGE NOTED. CONTINUE NORMALLY SCHEDULED SAMPLING. |             |              |                 |                |               |               |                     |                |
| No Action Required                                                              |             |              |                 |                |               |               |                     |                |
| D440-47055-0044                                                                 | 21-Feb-2017 | 24-Feb-2017  | 3226 HR         | 1225 HR        | Yes           |               |                     |                |
| READINGS APPEAR NORMAL. OIL CHANGE NOTED. CONTINUE NORMALLY SCHEDULED SAMPLING. |             |              |                 |                |               |               |                     |                |
| No Action Required                                                              |             |              |                 |                |               |               |                     |                |

| Wear Metals (ppm)                      |     |     |     |    |      |         |       |       |       |      |     |     |     |     |    |    |
|----------------------------------------|-----|-----|-----|----|------|---------|-------|-------|-------|------|-----|-----|-----|-----|----|----|
| Cu                                     | Fe  | Cr  | Al  | Pb | Sn   | Si      | Na    | K     | B     | Mo   | Ni  | Ag  | Ti  | V   | Mn | Cd |
| 0                                      | 13  | 0   | 0   | 0  | 1    | 3       | 2     | 2     | 93    | 0    | 2   | 0   | 0   | 0   | 0  | 0  |
| 0                                      | 13  | 0   | 0   | 0  | 0    | 3       | 4     | 0     | 80    | 1    | 2   | 0   | 0   | 0   | 0  | 0  |
| 1                                      | 13  | 1   | 0   | 0  | 0    | 4       | 3     | 1     | 81    | 1    | 3   | 0   | 0   | 0   | 0  | 0  |
| 2                                      | 27  | 1   | 0   | 1  | 0    | 9       | 3     | 2     | 95    | 2    | 7   | 0   | 0   | 0   | 0  | 0  |
| Oil Condition / Particle Count (ct/ml) |     |     |     |    |      |         |       |       |       |      |     |     |     |     |    |    |
| ST                                     | OXI | NIT | SUL | W  | V100 | ISO     | 4µ    | 6µ    | 10µ   | 14µ  | 18µ | 21µ | 38µ | 50µ |    |    |
| 0                                      | 8   | 4   | 16  | N  | 25.9 | 2322/17 | 59087 | 26824 | 4960  | 1070 | 265 | 112 | 4   | 0   |    |    |
| 0                                      | 9   | 4   | 16  | N  | 26.0 | 2322/17 | 55218 | 26030 | 5177  | 1216 | 331 | 151 | 4   | 0   |    |    |
| 0                                      | 9   | 4   | 15  | N  | 26.1 | 2322/17 | 63917 | 28340 | 4158  | 640  | 124 | 54  | 3   | 0   |    |    |
| 0                                      | 9   | 4   | 16  | N  | 26.3 | 2323/19 | 70468 | 44254 | 14101 | 3450 | 808 | 329 | 13  | 2   |    |    |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying Index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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COMPANY NAME : LIBERTY FUELS COMPANY  
CUSTOMER EQUIP NUM : 1615140  
COMPARTMENT NAME : FINAL DRIVE REAR RIGHT  
SERIAL NUMBER : 2216\_LIBERTY  
MANUFACTURER : LETOURNEAU  
MODEL : L1150  
JOB SITE :  
EXT WARR NUMBER :  
SAMPLE SHIP TIME (days) : 4

FAX:  
PHONE:

SAMPLE TYPE: OIL

SHOP JOB NUM : 413176  
COMP SERIAL NUM :  
COMPARTMENT MODEL :  
COMP MANUFACTURER :  
SAMPLE LABEL NUM :  
FLUID BRAND/WEIGHT : 60  
FLUID TYPE : OIL  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :

100 Caterpillar Drive  
P.O. Box 321033  
Flowood, MS 39232  
(769)777-7270  
puckett.cat.com

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| LAB CONTROL NUMBER | SAMPLE DATE                                                                     | PROCESS DATE | EQUIPMENT METER | METER ON FLUID | FLUID CHANGED | MAKE UP FLUID | MAKE UP FLUID UNITS | FILTER CHANGED |
|--------------------|---------------------------------------------------------------------------------|--------------|-----------------|----------------|---------------|---------------|---------------------|----------------|
| D440-47159-0050    | 04-Jun-2017                                                                     | 08-Jun-2017  | 4182 HR         | 413 HR         | No            |               |                     |                |
| No Action Required | READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.                   |              |                 |                |               |               |                     |                |
| D440-47159-0052    | 04-Jun-2017                                                                     | 08-Jun-2017  | 4182 HR         | 413 HR         | No            |               |                     |                |
| No Action Required | READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.                   |              |                 |                |               |               |                     |                |
| D440-47128-0059    | 02-May-2017                                                                     | 08-May-2017  | 4127 HR         | 358 HR         | No            |               |                     |                |
| No Action Required | NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.                          |              |                 |                |               |               |                     |                |
| D440-47095-0029    | 03-Apr-2017                                                                     | 06-Apr-2017  | 3769 HR         | 543 HR         | Yes           |               |                     | No             |
| No Action Required | READINGS APPEAR NORMAL. OIL CHANGE NOTED. CONTINUE NORMALLY SCHEDULED SAMPLING. |              |                 |                |               |               |                     |                |

| Wear Metals (ppm) | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | K | B  | Mo | Ni | Ag | Ti | V | Mn | Cd | Ca  | Mg | Zn | P   | Ba |
|-------------------|----|----|----|----|----|----|----|----|---|----|----|----|----|----|---|----|----|-----|----|----|-----|----|
| D440-47159-0050   | 1  | 10 | 0  | 0  | 0  | 0  | 3  | 2  | 1 | 92 | 0  | 1  | 0  | 0  | 0 | 0  | 0  | 263 | 1  | 13 | 287 | 0  |
| D440-47159-0052   | 0  | 11 | 0  | 0  | 0  | 0  | 3  | 2  | 1 | 95 | 0  | 2  | 0  | 0  | 0 | 0  | 0  | 261 | 1  | 9  | 287 | 0  |
| D440-47128-0059   | 1  | 7  | 0  | 0  | 0  | 0  | 2  | 4  | 0 | 78 | 0  | 1  | 0  | 0  | 0 | 0  | 0  | 221 | 2  | 7  | 238 | 0  |
| D440-47095-0029   | 1  | 12 | 1  | 0  | 0  | 0  | 3  | 3  | 1 | 80 | 0  | 1  | 0  | 0  | 0 | 0  | 0  | 220 | 1  | 12 | 243 | 0  |

| Oil Condition / Particle Count (ct/ml) | ST | OXI | NIT | SUL | W | V100 | ISO      | 4μ    | 6μ    | 10μ  | 14μ  | 18μ | 21μ | 38μ | 50μ |
|----------------------------------------|----|-----|-----|-----|---|------|----------|-------|-------|------|------|-----|-----|-----|-----|
| D440-47159-0050                        | 0  | 8   | 4   | 15  | N | 26.0 | 23/22/17 | 56375 | 30586 | 6905 | 1282 | 255 | 97  | 2   | 0   |
| D440-47159-0052                        | 0  | 8   | 4   | 15  | N | 26.1 | 23/22/15 | 51413 | 20063 | 2179 | 272  | 62  | 29  | 2   | 1   |
| D440-47128-0059                        | 0  | 8   | 4   | 15  | N | 25.9 | 23/22/15 | 54109 | 20090 | 1555 | 173  | 33  | 14  | 1   | 0   |
| D440-47095-0029                        | 0  | 9   | 4   | 18  | N | 26.2 | 23/22/16 | 58082 | 22173 | 2703 | 424  | 103 | 49  | 6   | 2   |

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying Index, NaW = Salt Water, FL P1 = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

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COMPANY NAME : LIBERTY FUELS COMPANY  
CUSTOMER EQUIP NUM : 1615140  
COMPARTMENT NAME : FINAL DRIVE REAR LEFT  
SERIAL NUMBER : 2216\_LIBERTY  
MANUFACTURER : LETOURNEAU  
MODEL : L1150  
JOB SITE :  
EXT WARR NUMBER :  
SAMPLE SHIP TIME (days) : 36  
FAX :  
PHONE :  
SAMPLE TYPE: OIL  
LAB CONTROL NUMBER :  
D440-47194-0103  
D440-47159-0051  
D440-47128-0058  
D440-47096-0028

SHOP JOB NUM : 413176  
COMP SERIAL NUM :  
COMPARTMENT MODEL :  
COMP MANUFACTURER :  
SAMPLE LABEL NUM :  
FLUID BRAND/WEIGHT : CAT/60  
FLUID TYPE : OIL  
EXT WARR EXPIRE DATE :  
FUEL CONSUMED :

100 Caterpillar Drive  
P.O. Box 321033  
Flowood, MS 39232  
(769)777-7270  
puckett.cat.com

| LAB CONTROL NUMBER | SAMPLE DATE                                                                     | PROCESS DATE | EQUIPMENT METER | METER ON FLUID | FLUID CHANGED | MAKE UP FLUID | MAKE UP FLUID UNITS | FILTER CHANGED |
|--------------------|---------------------------------------------------------------------------------|--------------|-----------------|----------------|---------------|---------------|---------------------|----------------|
| D440-47194-0103    | 07-Jun-2017                                                                     | 13-Jul-2017  | 4421 HR         | 652 HR         | No            |               |                     |                |
| No Action Required | READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.                   |              |                 |                |               |               |                     |                |
| D440-47159-0051    | 04-Jun-2017                                                                     | 08-Jun-2017  | 4182 HR         | 413 HR         | No            |               |                     |                |
| No Action Required | READINGS APPEAR NORMAL. CONTINUE NORMALLY SCHEDULED SAMPLING.                   |              |                 |                |               |               |                     |                |
| D440-47128-0058    | 02-May-2017                                                                     | 08-May-2017  | 4127 HR         | 358 HR         | No            |               |                     |                |
| No Action Required | NORMAL READINGS. CONTINUE NORMALLY SCHEDULED SAMPLING.                          |              |                 |                |               |               |                     |                |
| D440-47096-0028    | 03-Apr-2017                                                                     | 06-Apr-2017  | 3769 HR         | 543 HR         | Yes           |               |                     | No             |
| No Action Required | READINGS APPEAR NORMAL. OIL CHANGE NOTED. CONTINUE NORMALLY SCHEDULED SAMPLING. |              |                 |                |               |               |                     |                |

| Wear Metals (ppm) | Cu | Fe | Cr | Al | Pb | Sn | Si | Na | K | B  | Mo | Ni | Ag | Ti | V | Mn | Cd | Ca  | Mg | Zn | P   | Ba |
|-------------------|----|----|----|----|----|----|----|----|---|----|----|----|----|----|---|----|----|-----|----|----|-----|----|
| D440-47194-0103   | 0  | 4  | 0  | 0  | 2  | 0  | 2  | 1  | 0 | 44 | 1  | 0  | 0  | 0  | 0 | 0  | 0  | 100 | 2  | 14 | 211 | 0  |
| D440-47159-0051   | 0  | 11 | 0  | 0  | 0  | 0  | 2  | 2  | 1 | 87 | 1  | 2  | 0  | 0  | 0 | 0  | 0  | 248 | 1  | 11 | 273 | 0  |
| D440-47128-0058   | 2  | 11 | 0  | 0  | 1  | 0  | 2  | 4  | 0 | 82 | 0  | 2  | 0  | 0  | 0 | 0  | 0  | 240 | 1  | 11 | 256 | 0  |
| D440-47096-0028   | 1  | 10 | 1  | 0  | 0  | 0  | 2  | 3  | 1 | 84 | 1  | 3  | 0  | 0  | 0 | 0  | 0  | 236 | 1  | 13 | 260 | 0  |

| Oil Condition / Particle Count (ct) | ST | OXI | NIT | SUL | W | V100 | ISO      | 4μ    | 6μ    | 10μ  | 14μ | 18μ | 21μ | 38μ | 50μ |
|-------------------------------------|----|-----|-----|-----|---|------|----------|-------|-------|------|-----|-----|-----|-----|-----|
| D440-47194-0103                     | 0  | 5   | 3   | 14  | N | 21.1 | 23/21/15 | 53394 | 14527 | 1557 | 253 | 58  | 26  | 1   | 0   |
| D440-47159-0051                     | 0  | 8   | 4   | 16  | N | 25.9 | 23/22/16 | 52480 | 22786 | 3078 | 424 | 79  | 29  | 0   | 0   |
| D440-47128-0058                     | 0  | 9   | 4   | 16  | N | 25.9 | 23/22/16 | 54329 | 23384 | 3110 | 470 | 100 | 42  | 1   | 0   |
| D440-47096-0028                     | 0  | 8   | 4   | 15  | N | 26.0 | 23/22/16 | 54365 | 20984 | 2743 | 439 | 114 | 59  | 8   | 3   |

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