

# NEBRASKA TURBINE SERVICES

7/9/2012

1157 County Road 20 Hooper, Ne. 68063  
Phone (402) 654-2552 Fax (402) 654-3600

OWNER TPT

WORK ORDER # 120413-37

FUEL DENSITY 33.5

ENGINE MODEL T55-L-712

FUEL CONTROL SER.# N/A

FUEL TYPE JET A

ENGINE SER.# LE-79144C

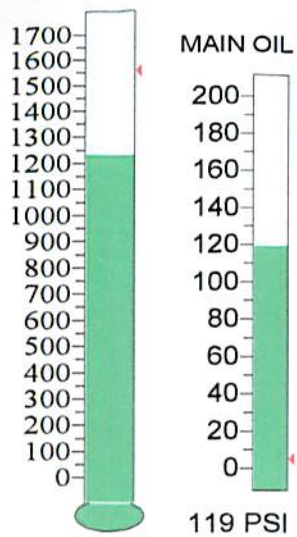
J BOX SER # N/A

| POWER SETTING      | GROUND IDLE | FLIGHT IDLE | 40% NORMAL | 75% NORMAL | MCP      | MAX INT  | MAX      |
|--------------------|-------------|-------------|------------|------------|----------|----------|----------|
| TIME               | 12:05:56    | 12:05:18    | 12:04:23   | 12:03:14   | 12:02:21 | 12:01:43 | 12:00:32 |
| N1%                | 53.17       | 71.39       | 86.56      | 91.88      | 96.85    | 98.85    | 102.81   |
| N2%                | 20.12       | 32.22       | 60.95      | 78.03      | 98.11    | 98.39    | 98.96    |
| HORSE POWER        | 76.04       | 280.93      | 1148.78    | 1787.14    | 2604.13  | 2957.11  | 3676.24  |
| FUEL PPH 1         | 286.64      | 468.67      | 862.71     | 1135.39    | 1474.60  | 1620.27  | 1930.46  |
| FUEL PPH 2         | 286.64      | 468.67      | 862.71     | 1135.39    | 1474.60  | 1620.27  | 1930.46  |
| FUEL AVG PPH       | 286.64      | 468.67      | 862.71     | 1135.39    | 1474.60  | 1620.27  | 1930.46  |
| FUEL GPM           | 0.71        | 1.16        | 2.13       | 2.80       | 3.64     | 4.00     | 4.76     |
| TORQUE FT LBS      | 129.45      | 298.62      | 645.55     | 784.40     | 909.09   | 1029.38  | 1272.29  |
| TORQUE IN LBS      | 1553.45     | 3583.41     | 7746.63    | 9412.84    | 10909.07 | 12352.53 | 15267.51 |
| MGT °F             | 883.89      | 888.90      | 981.98     | 1125.25    | 1287.86  | 1353.76  | 1475.33  |
| AVG IAT °F         | 98.52       | 96.91       | 86.76      | 86.69      | 86.33    | 86.03    | 85.88    |
| IAT1 °F            | 98.52       | 96.91       | 86.76      | 86.69      | 86.33    | 86.03    | 85.88    |
| IAT 2 °F           | 98.52       | 96.91       | 86.76      | 86.69      | 86.33    | 86.03    | 85.88    |
| BAROMETER          | 28.77       | 28.77       | 28.77      | 28.77      | 28.77    | 28.77    | 28.77    |
| #2 BEARING TEMP °F | 238.52      | 253.96      | 265.33     | 279.92     | 285.42   | 287.67   | 287.47   |

|                  |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|
|                  |        |        |        |        |        |        |        |
|                  |        |        |        |        |        |        |        |
|                  |        |        |        |        |        |        |        |
| COMP DIS PSI     | 13.92  | 30.28  | 60.97  | 74.14  | 88.59  | 94.52  | 105.63 |
| COMP DISCHARGE ° | 262.59 | 382.51 | 495.84 | 540.34 | 583.00 | 601.58 | 630.38 |
|                  |        |        |        |        |        |        |        |
| TORQUE METER MV  | 0.02   | 0.04   | 0.02   | 0.02   | 0.02   | 0.03   | 0.04   |
| ACCY GEARBOX PSI | 0.20   | 0.21   | 0.27   | 0.29   | 0.36   | 0.36   | 0.42   |
|                  |        |        |        |        |        |        |        |
|                  |        |        |        |        |        |        |        |
| FUEL INLET PSI   | 40.93  | 37.98  | 31.90  | 28.53  | 24.59  | 23.00  | 19.47  |
| FUEL CONTROL PUM | 0.62   | 0.69   | 0.93   | 0.99   | 0.81   | 1.17   | 1.17   |
| FUEL CONTROL OUT | 286.25 | 324.15 | 390.02 | 426.78 | 473.55 | 496.43 | 549.70 |
| PT BEARING °F    | 242.85 | 254.47 | 268.26 | 279.69 | 278.81 | 272.68 | 258.48 |
| MAIN OIL PSI     | 43.54  | 70.27  | 97.44  | 93.37  | 108.49 | 112.07 | 118.30 |

|                  |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|
| #2 BEARING PSI   | 23.00  | 36.23  | 50.37  | 48.77  | 56.93  | 59.02  | 63.43  |
| PT BEARING PSI   | 28.60  | 46.07  | 64.07  | 60.95  | 72.06  | 74.07  | 79.50  |
| VIBRATION COMPRE | 0.01   | 0.02   | 0.02   | 0.02   | 0.03   | 0.04   | 0.05   |
| VIBRATION AXIAL  | 0.12   | 0.24   | 0.20   | 0.26   | 0.56   | 0.56   | 0.56   |
| VIBRATION PT     | 0.11   | 0.16   | 0.16   | 0.23   | 0.30   | 0.30   | 0.31   |
| OIL TEMP °F      | 195.20 | 198.32 | 200.56 | 200.01 | 195.52 | 190.39 | 175.79 |
| FUEL °F          | 81.71  | 81.31  | 81.01  | 81.01  | 80.71  | 80.71  | 80.71  |

# MGT



1232 °F

N1 95 % RPM 11:58:36

7/9/2012

N2 96 % RPM

COMP 2430 HP

## NEBRASKA TURBINE SERVICES

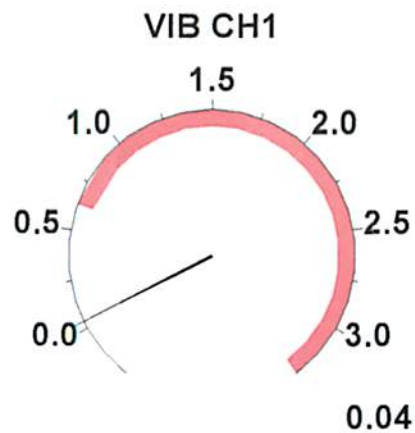
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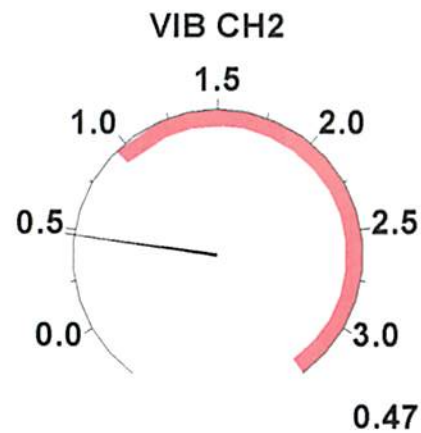
|         |         |         |         |
|---------|---------|---------|---------|
| Pnt Fnt | Pnt Spc | Pnt Acc | Pnt Vib |
|---------|---------|---------|---------|

|    |    |     |     |     |     |
|----|----|-----|-----|-----|-----|
| GI | FI | 40% | 75% | MCP | INT |
|----|----|-----|-----|-----|-----|

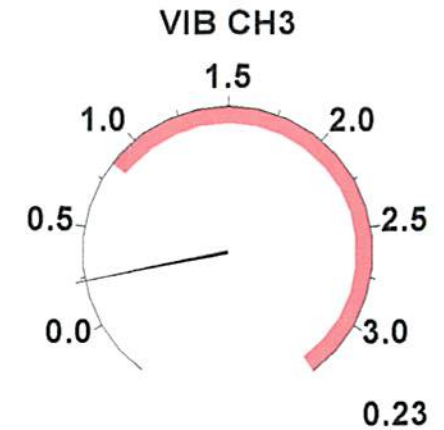
## INLET



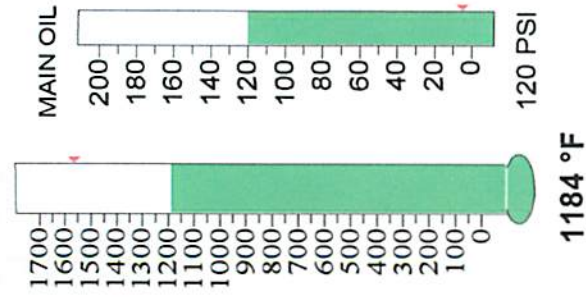
## AXIAL



## PT



# MGT



N1 93 % RPM 11:57:47  
 N2 100 % RPM 7/9/2012

COMP 2101 HP

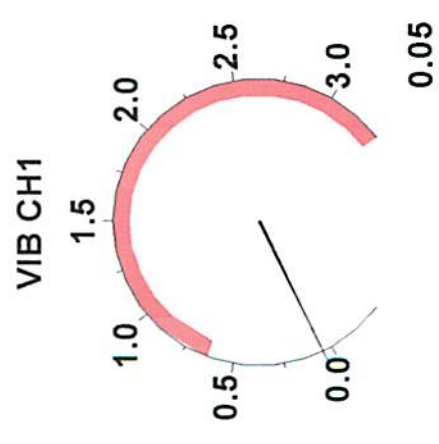
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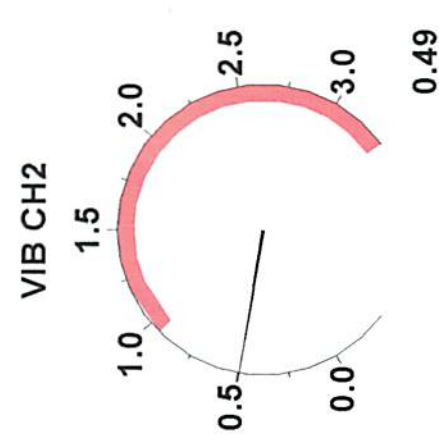
|         |         |         |         |
|---------|---------|---------|---------|
| Pnt Fnt | Pnt Spc | Pnt Acc | Pnt Vib |
|---------|---------|---------|---------|

|    |    |     |     |     |     |
|----|----|-----|-----|-----|-----|
| GI | FI | 40% | 75% | MCP | INT |
|----|----|-----|-----|-----|-----|

## INLET



## AXIAL



## PT

