

# NEBRASKA TURBINE SERVICES

6/5/2012

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

OWNER TPT

WORK ORDER # 120407-37D

FUEL DENSITY 33.5

ENGINE MODEL T55-L-712

FUEL CONTROL SER.# N/A

FUEL TYPE JET A

ENGINE SER.# LE-79133C

J BOX SER # N/A

| POWER SETTING      | GROUND IDLE | FLIGHT IDLE | 40% NORMAL | 75% NORMAL | MCP      | MAX INT  | MAX      |
|--------------------|-------------|-------------|------------|------------|----------|----------|----------|
| TIME               | 13:53:59    | 13:53:18    | 13:52:51   | 13:51:04   | 13:50:12 | 13:49:09 | 13:47:48 |
| N1%                | 52.12       | 69.32       | 86.70      | 91.88      | 96.44    | 98.75    | 102.39   |
| N2%                | 19.49       | 30.06       | 60.29      | 78.59      | 97.98    | 98.82    | 98.52    |
| HORSE POWER        | 67.64       | 232.55      | 1128.72    | 1778.29    | 2548.61  | 2940.54  | 3638.25  |
| FUEL PPH 1         | 281.86      | 443.18      | 863.35     | 1136.32    | 1450.97  | 1613.18  | 1902.66  |
| FUEL PPH 2         | 281.86      | 443.18      | 863.35     | 1136.32    | 1450.97  | 1613.18  | 1902.66  |
| FUEL AVG PPH       | 281.86      | 443.18      | 863.35     | 1136.32    | 1450.97  | 1613.18  | 1902.66  |
| FUEL GPM           | 0.70        | 1.09        | 2.13       | 2.80       | 3.58     | 3.98     | 4.70     |
| TORQUE FT LBS      | 118.88      | 264.99      | 641.16     | 774.99     | 890.92   | 1019.16  | 1264.80  |
| TORQUE IN LBS      | 1426.54     | 3179.91     | 7693.90    | 9299.92    | 10691.03 | 12229.93 | 15177.62 |
| MGT °F             | 935.34      | 928.86      | 1033.86    | 1174.89    | 1319.64  | 1392.98  | 1510.91  |
| AVG IAT °F         | 103.54      | 99.95       | 90.01      | 87.27      | 87.40    | 87.87    | 87.20    |
| IAT1 °F            | 103.54      | 99.95       | 90.01      | 87.27      | 87.40    | 87.87    | 87.20    |
| IAT 2 °F           | 103.54      | 99.95       | 90.01      | 87.27      | 87.40    | 87.87    | 87.20    |
| BAROMETER          | 28.56       | 28.55       | 28.55      | 28.55      | 28.55    | 28.54    | 28.55    |
| #2 BEARING TEMP °F | 238.12      | 253.60      | 263.22     | 274.14     | 281.29   | 288.23   | 296.73   |

|                  |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|
| COMP DIS PSI     | 11.35  | 26.68  | 58.27  | 72.23  | 81.68  | 88.93  | 97.78  |
| COMP DISCHARGE ° | 258.53 | 367.33 | 492.05 | 533.80 | 574.88 | 596.07 | 625.79 |
| TORQUE METER MV  | 0.03   | 0.03   | 0.04   | 0.02   | 0.03   | 0.04   | 0.05   |
| ACCY GEARBOX PSI | 0.18   | 0.15   | 0.21   | 0.20   | 0.24   | 0.24   | 0.29   |
| FUEL INLET PSI   | 41.36  | 38.52  | 32.24  | 28.62  | 25.06  | 23.29  | 19.90  |
| FUEL CONTROL PUM | 228.46 | 250.79 | 303.65 | 333.60 | 371.99 | 393.59 | 393.59 |
| FUEL CONTROL OUT | 276.29 | 310.45 | 378.40 | 416.64 | 464.56 | 489.92 | 541.78 |
| PT BEARING °F    | 247.32 | 256.78 | 264.36 | 285.60 | 289.41 | 287.82 | 279.42 |
| MAIN OIL PSI     | 47.02  | 74.87  | 111.60 | 118.59 | 123.99 | 124.93 | 127.87 |

|                  |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|
| #2 BEARING PSI   | 24.58  | 38.99  | 58.62  | 62.17  | 65.39  | 66.35  | 68.94  |
| PT BEARING PSI   | 29.67  | 48.10  | 72.54  | 77.18  | 81.17  | 81.94  | 84.44  |
| VIBRATION COMPRE | 0.17   | 0.18   | 0.21   | 0.25   | 0.26   | 0.27   | 0.30   |
| VIBRATION AXIAL  | 0.15   | 0.15   | 0.12   | 0.25   | 0.45   | 0.44   | 0.39   |
| VIBRATION PT     | 0.32   | 0.32   | 0.39   | 0.71   | 0.49   | 0.54   | 0.69   |
| OIL TEMP °F      | 195.83 | 199.14 | 200.71 | 203.32 | 202.13 | 199.03 | 189.99 |
| FUEL °F          | 78.35  | 77.87  | 77.65  | 77.18  | 76.89  | 76.59  | 76.59  |

NEBRASKA TURBINE SERVICES

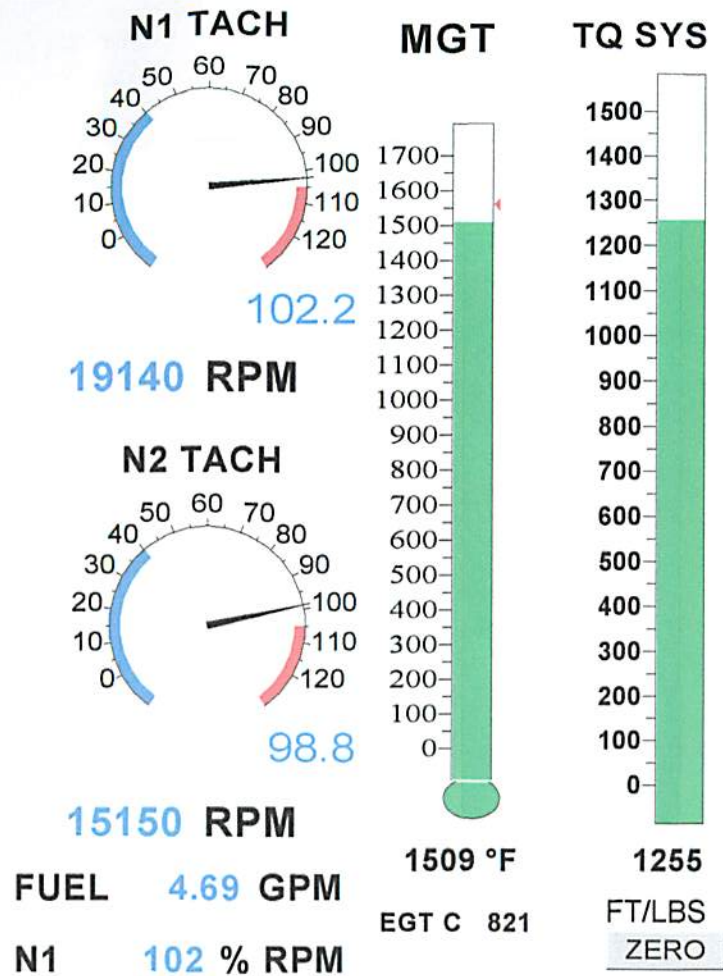
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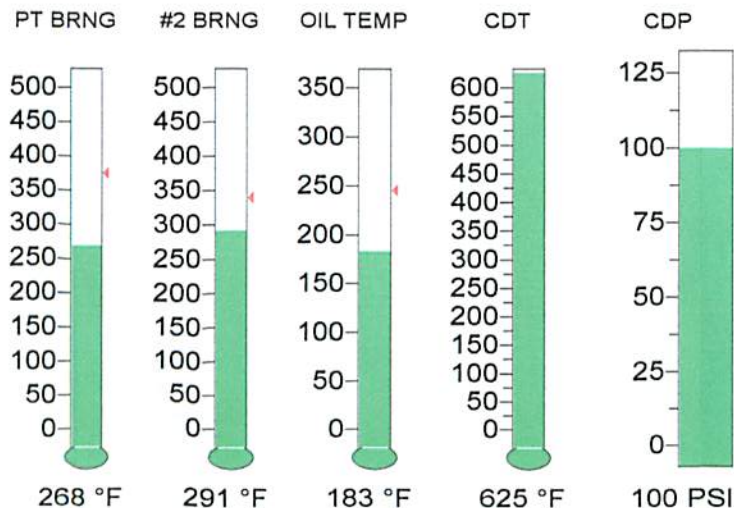
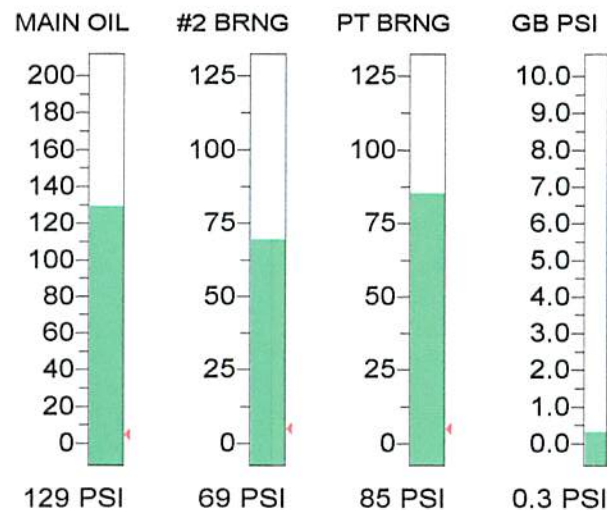
13:47:04

ZERO

BAROMETER 28.55 IN/HG  
FUEL FLOW 1 1900.86 PHR  
FUEL FLOW 2 1900.86 PHR  
COMP FUEL 1994.07 PHR  
FUEL IN 20 PSI  
FUEL TEMP 77 °F  
INLET AIR 1 88 °F  
INLET AIR 2 88 °F  
FLOW DIVIDER IN 542 PSI  
FUEL CONTROL 438 PSI  
TORQUE 15069 IN/LBS  
TM VOLTS 0 MV  
TQ METER -0



COMP 3791 HP  
ACTUAL 3618 HP  
AVG IAT 88.1 °F  
F AVG 1903 PPH



Owner TPT  
Model T55-L-712F  
Engine Ser.# LE-79133C  
Fuel Control Ser.# N/A  
Fuel Type JET A  
Fuel Density 33.5



00:23:43

START

STOP

RATE

GI

FI

40%

75%

MCP

INT

MAX

Pnt Fnt

Pnt Spc

Pnt Acc

Pnt Vib

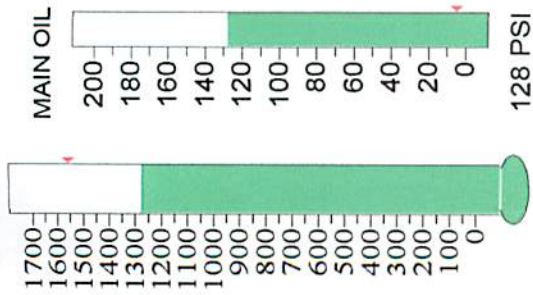
1

2

3

4

# MGT



N1 95 % RPM 13:45:21

N2 95 % RPM 6/5/2012

COMP 2367 HP

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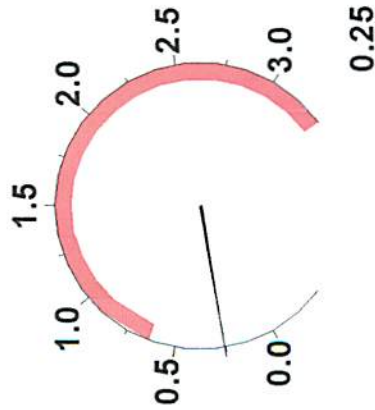
ENGINE SER # LE-79133C

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

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

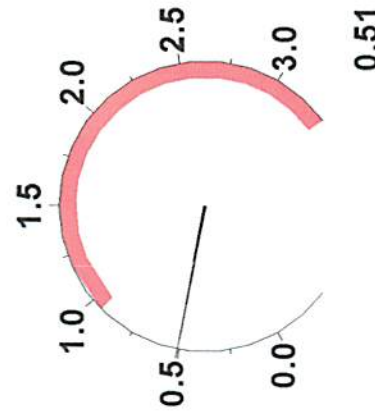
## INLET

VIB CH1



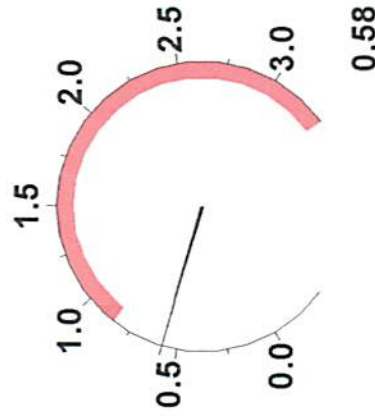
## AXIAL

VIB CH2

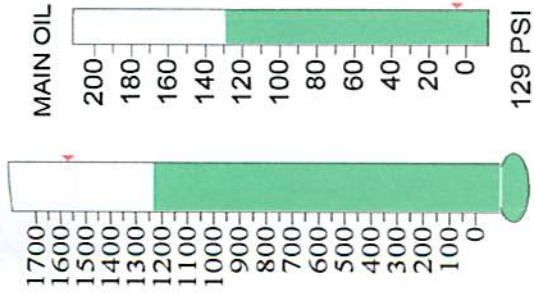


## PT

VIB CH3



# MGT



1229 °F

N1 93 % RPM 13:43:57

6/5/2012

N2 101 % RPM

COMP 2038 HP

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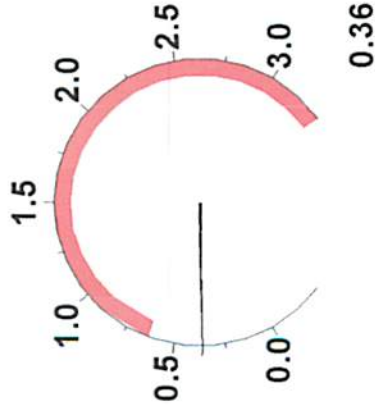
ENGINE SER # LE-79133C

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

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

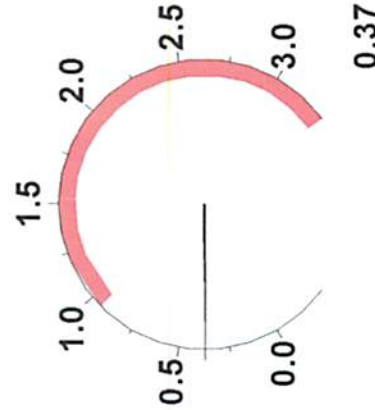
## INLET

VIB CH1



## AXIAL

VIB CH2



## PT

VIB CH3

