

KALITTA MAINTENANCE

CERTIFICATED REPAIR STATION #K00R718X

GAS PATH BORESCOPE REPORT

FORM KM-231

KM-34 No.: AEC-E001

ENGINE MAKE: Pratt & Whitney MODEL: JT9D-7J

CUSTOMER: Aero Excel Comp.

ESN: 685969

| STAGE | DAMAGE | EROSION | AIRFOIL | REMARKS | INSP/DATE |
|---|--|---|---|---|-------------|
| LPC 1 ST STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 |
| LPC 1.5 STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input checked="" type="checkbox"/> | YES <input type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 |
| LPC 2 ND STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 |
| LPC 3 RD STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | A few minor nicks in LE of blades. All damage is within continued time limits, IAW PW JT9D-7J EM 72-00-00, Check -03. | QC46 |

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|---|--|---|---|---------|-----------------|
| LPC 4 TH STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 12-5-13 |
| LPC 5 TH STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input checked="" type="checkbox"/> | YES <input type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 12-5-13 |
| LPC 6 TH STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input checked="" type="checkbox"/> | YES <input type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 12-5-13 |

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GAS PATH BORESCOPE REPORT

FORM KMI-231

KMI-34 No.: AEC-E001

ENGINE MAKE: Pratt & Whitney MODEL: JT9D-7J

CUSTOMER: Aero Excel Comp.

ESN: 685969

| STAGE | DAMAGE | EROSION | AIRFOIL | REMARKS | INSP/DATE |
|--|---|--|--|---------|----------------------------|
| HPC 1ST STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input checked="" type="checkbox"/> | YES <input type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 12-5-13 |
| HPC 2ND STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input checked="" type="checkbox"/> | YES <input type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 12-5-13 |
| HPC 3RD STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input checked="" type="checkbox"/> | YES <input type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 12-5-13 |
| HPC 4TH STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input checked="" type="checkbox"/> | YES <input type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 12-5-13 |

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MODEL: JT9D-7J

CUSTOMER: Aero Excel Comp.

ESN: 685969

| STAGE | DAMAGE | EROSION | AIRFOIL | REMARKS | INSP/DATE |
|--|--|---|---|---------|-------------------------------|
| HPC 5th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HPC 6th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HPC 7th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HPC 8th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |

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CUSTOMER: Aero Excel Comp. ESN: 685969

| STAGE | DAMAGE | EROSION | AIRFOIL | REMARKS | INSP/DATE |
|---|--|---|---|---|-----------------------------------|
| HPC 9 th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HPC 10 th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | A few minor nicks in LE & TE of blades. All damage is within continued time limits, IAW PW JT9D-7J EM 72-00-00, Check -03. | QC46 <i>12-5-13</i> |
| HPC 11 th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HPC 12 th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |

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|---|--|---|---|--|----------------------------|
| HPC 13 th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | A few blades with minor dents in concave side and TE. All damage is within continued time limits, IAW PW JT9D-7J EM 72-00-00, Check -03. | QC46 12-5-13 |
| HPC 14 th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | A few blades with very minor LE nicks. All damage is within continued time limits, IAW PW JT9D-7J EM 72-00-00, Check -03. | QC46 12-5-13 |
| HPC 15 th STAGE CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | A few blades with very minor LE nicks. All damage is within continued time limits, IAW PW JT9D-7J EM 72-00-00, Check -03. | QC46 12-5-13 |

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|--|--|---|---|--|-----------------------------------|
| HOT SECTION COMBUSTION CHMBR(S) INNER/OUTER LINERS FUEL NOZZLES CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input checked="" type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input checked="" type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HOT SECTION T1 NOZZLE GUIDE VANES CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input checked="" type="checkbox"/> LIGHT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input type="checkbox"/> DIRTY <input checked="" type="checkbox"/> | Some blade tip area coating loss. | QC46 <i>12-5-13</i> |
| HOT SECTION T1 BLADES CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HOT SECTION T2 GUIDE VANES CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | Limited View. | QC46 <i>12-5-13</i> |

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|---|--|---|---|--------------|-----------------------------------|
| HOT SECTION T2 BLADES CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HOT SECTION LPT BLADES CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | | QC46 <i>12-5-13</i> |
| HOT SECTION LPT VANES CHECK BLOCK IF N/A TO ENGINE MODEL <input type="checkbox"/> | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NONE <input type="checkbox"/> LIGHT <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> HEAVY <input type="checkbox"/> | CLEAN <input checked="" type="checkbox"/> DIRTY <input type="checkbox"/> | Limited View | QC46 <i>12-5-13</i> |

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SUMMARY OF SIGNIFICANT FINDINGS: No significant findings. Borescope performed in accordance with

P&W JT9D Engine Manual (p/n 770408), 72-00-00, Check-03 (Borescope).

FINAL REVIEW: **QC46** *R. J. [Signature]* 2079

DATE: **Dec 05 2013**