

# **N178DA**

## **1984 Citation SII**

---

# **RH Engine**

# **Borescope**

## **SN: 102056**

## **December 2023**

**MSN: S550-0004**



*Prepared by the worldwide aviation specialists at RidgeAire, Inc.*



## Engine Evaluation/Condition Report

CUSTOMER:	<b>Northstar Aviation</b>	WORK ORDER NO:	<b>RPR63097</b>
ENGINE MFG:	<b>Pratt &amp; Whitney</b>	ENGINE MODEL:	<b>JT15D-4B</b>
AIRCRAFT REG. NO:	<b>N178DA</b>	AIRCRAFT S/N:	<b>550-0004</b>
AIRCRAFT TT:	<b>8014.8</b>	AIRCRAFT TC:	<b>8191</b>
REASON FOR INSPECTION:		<b>Customer requested Engine Borescope</b>	
CUSTOMER NAME/PHONE NUMBER:		<b>Dante Marinelli    928-764-1999</b>	
ENGINE SERIAL #:	<b>PCE-102056</b>	ENGINE POSITION:	<b>RIGHT</b>
TSN:	<b>7930.8</b>	CSN:	<b>7918</b>
TSO	<b>UNK</b>	CSO	<b>UNK</b>
ISSUED BY:	<b>Gary J Jost</b>		
DATE:	<b>11-December-2023</b>		

# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

Engine Time:

7930.8

Engine Cycle:

7918

• A/C Registration

Engine Data Plate



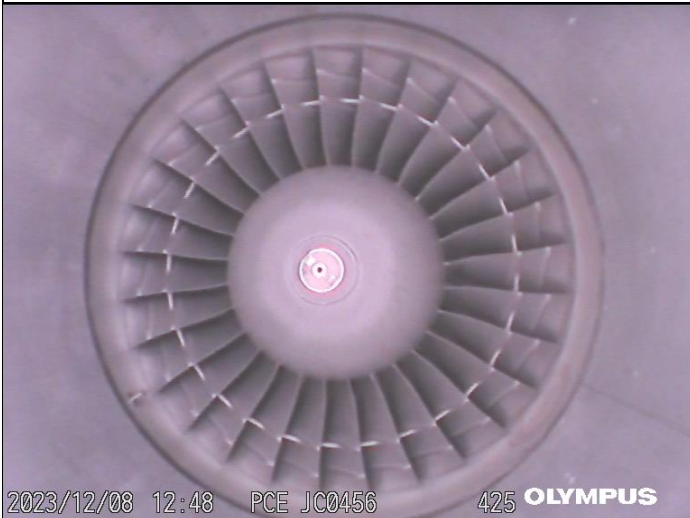
2023/12/08 12:43 PCE JC0456 418 OLYMPUS



2023/12/08 12:44 PCE JC0456 420 OLYMPUS

• LC Rotor (Inlet Fan)

T1 Inlet Sensor



2023/12/08 12:48 PCE JC0456 425 OLYMPUS



2023/12/08 12:51 PCE JC0456 431 OLYMPUS

## Page 2

**NOTE:** Given the nature of borescope instrumentation it is often not possible to make observations and examine all areas of an individual engine as part of an evaluation. Based on this limitation, Dallas Airmotive, Inc. cannot and does not warrant its findings for borescope evaluations (pre-purchase and otherwise) against the possibility that hidden damage may exist that was not observable and reported by our technician at the time of the evaluation.

# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

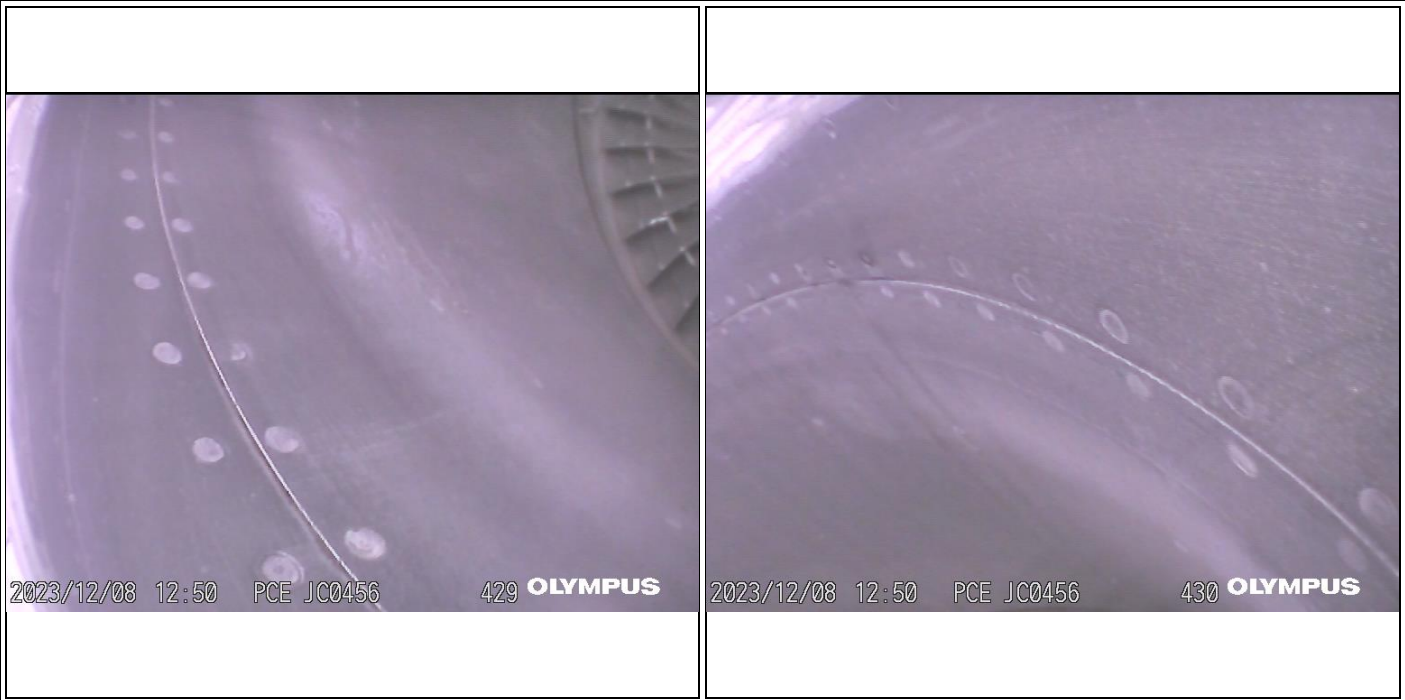
Engine Time:

7930.8

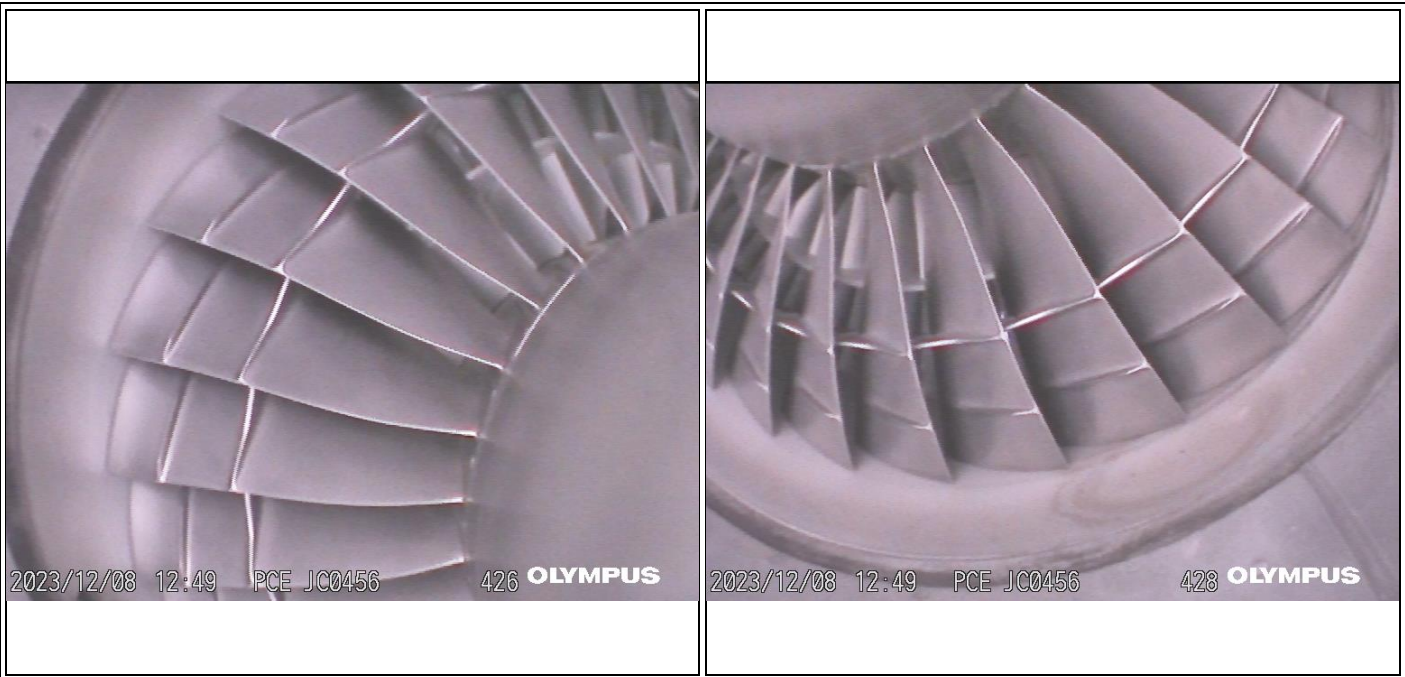
Engine Cycle:

7918

- Inlet Case – no anomalies noted



- Low Compressor (Fan) – no anomalies noted





# Engine Evaluation Report

DATE:

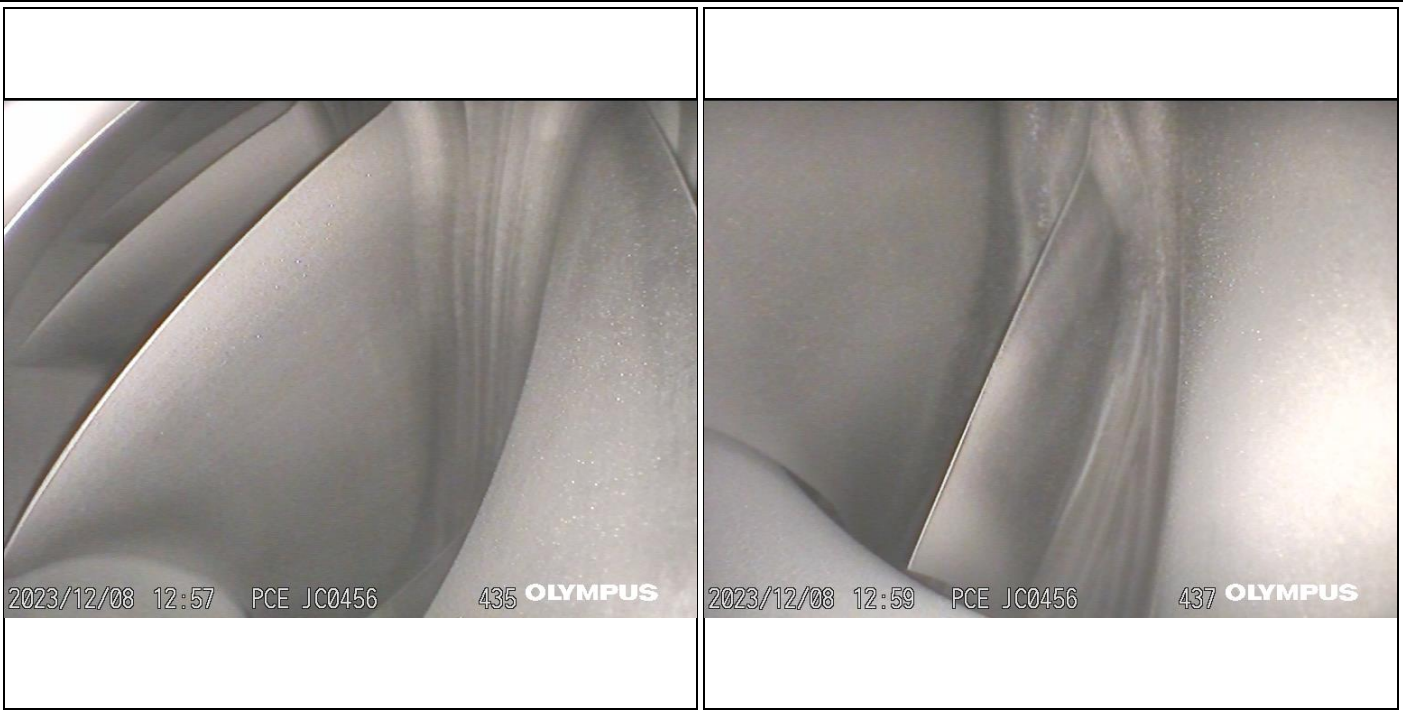


Engine Model:	JT15D-4B	Serial Number:	PCE-102056
Engine Time:	7930.8	Engine Cycle:	7918

- Intermediate Case – several areas with paint missing



- Impeller – main blade & mid-span - no anomalies noted



# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

Engine Time:

7930.8

Engine Cycle:

7918

• Impeller – no signs of rub noted

LT Rotor 3<sup>rd</sup> Stage Blades – no anomalies noted



• LT Rotor 3<sup>rd</sup> Stage Blades – no anomalies noted





# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

Engine Time:

7930.8

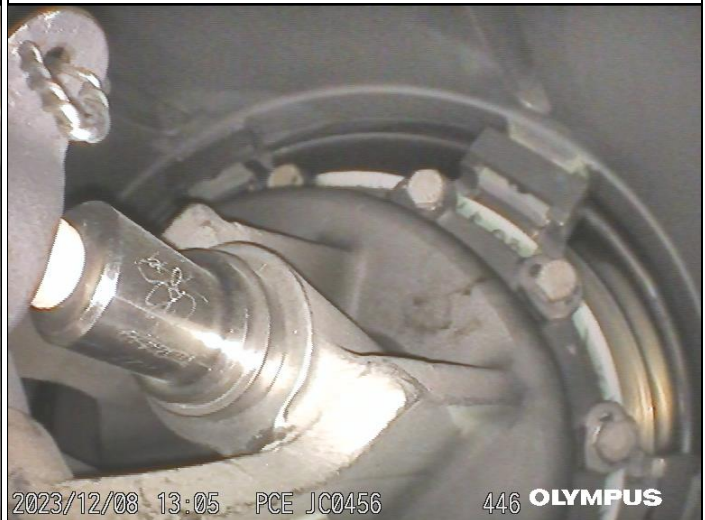
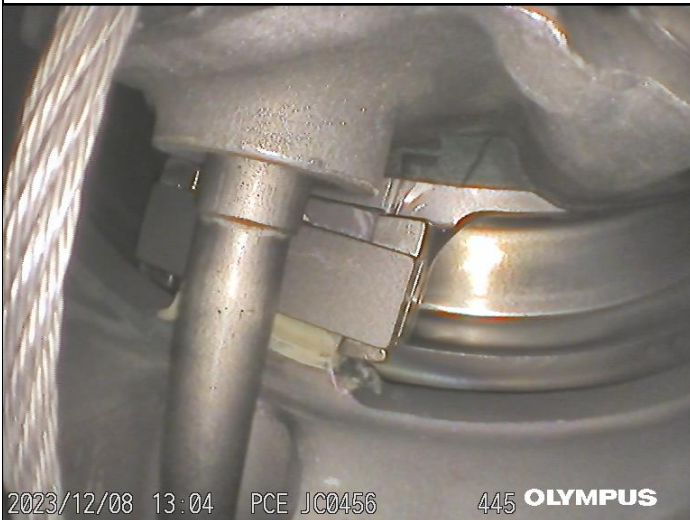
Engine Cycle:

7918

• #4 Bearing Housing Assy. – no anomalies noted



• #4 Bearing Housing Assy. – no anomalies noted



# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

Engine Time:

7930.8

Engine Cycle:

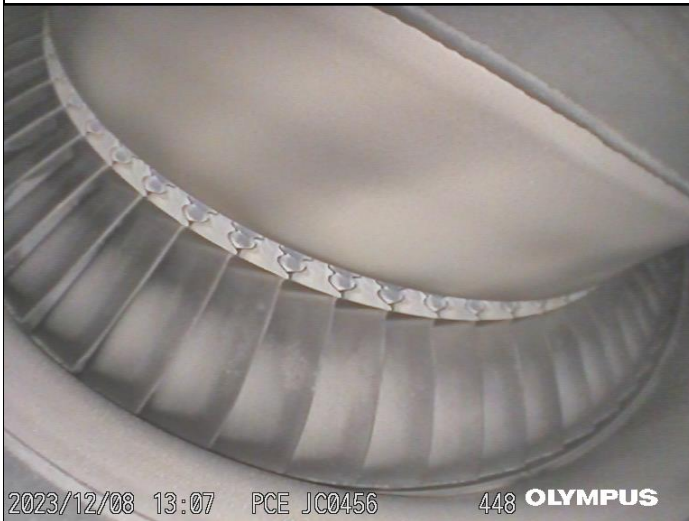
7918

• LT Stator – L/E of vanes, no anomalies noted



• HT Blades – T/E no anomalies noted

SB7317 Compliance





# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

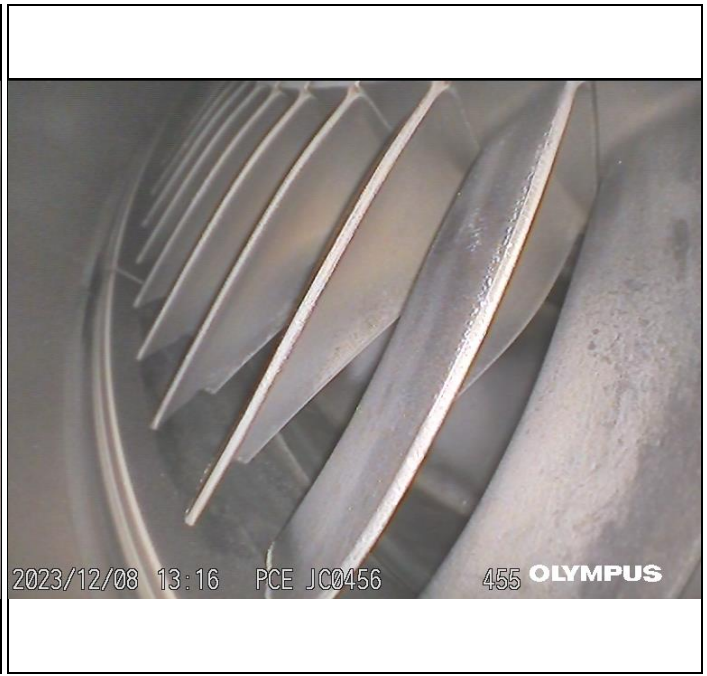
Engine Time:

7930.8

Engine Cycle:

7918

- HT Blades – T/E & L/E -- no anomalies noted



- HT Blades – witness step indicates some blade length/life remaining Light HT Blade rub



# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

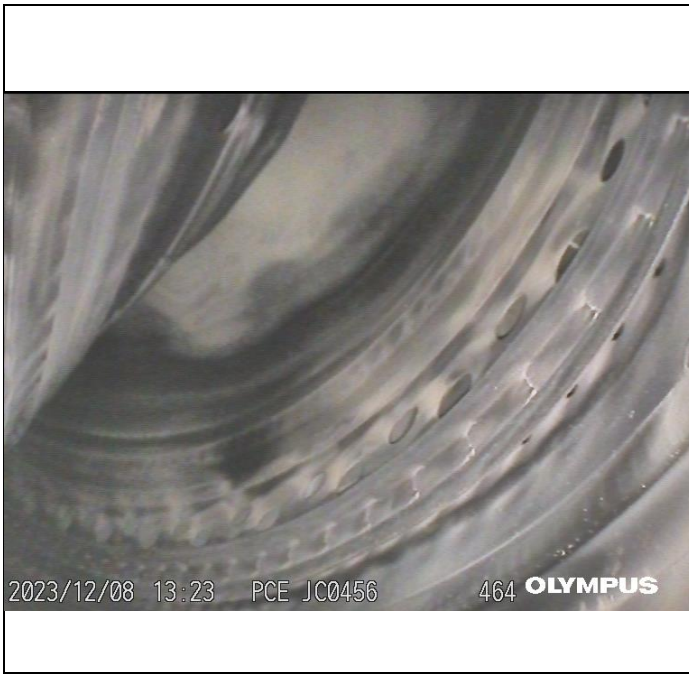
Engine Time:

7930.8

Engine Cycle:

7918

- Combustion Liner – Inner/Outer Walls, Large Exit Duct (LED) -- no anomalies noted



- Combustion Liner – Inner/Outer Walls, Large Exit Duct (LED) -- no anomalies noted





# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

Engine Time:

7930.8

Engine Cycle:

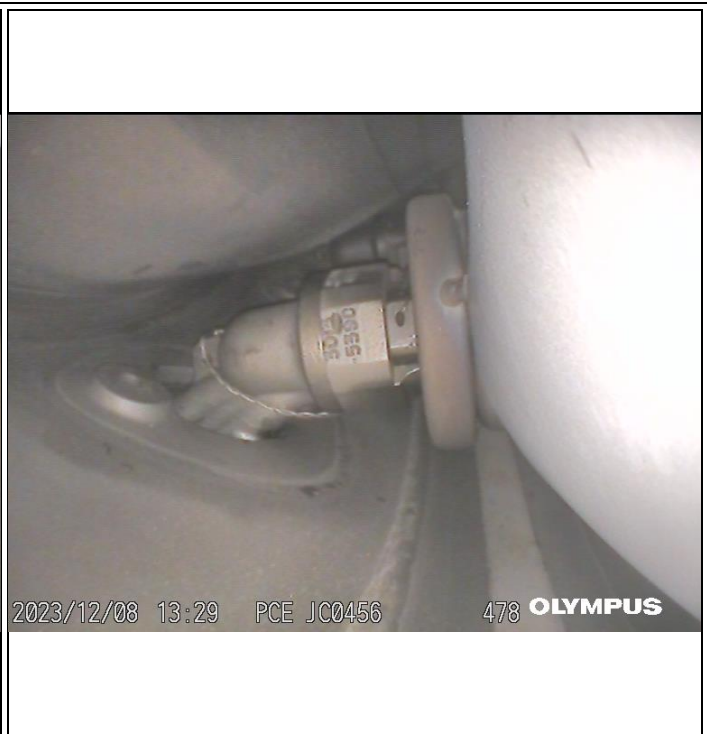
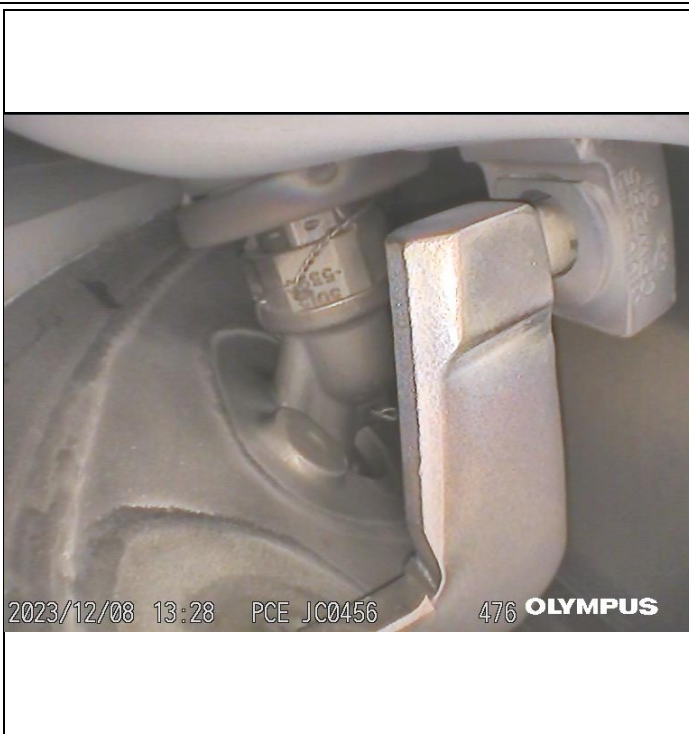
7918

- Fuel Nozzle Tip & Sheath – no anomalies noted



- Combustion Liner Support Pin & Fuel Adapter – no anomalies noted

Fuel Adapter & Sheath





# Engine Evaluation Report

DATE:



Engine Model:

JT15D-4B

Serial Number:

PCE-102056

Engine Time:

7930.8

Engine Cycle:

7918

- Deflector Ring, Segment, & Rivets – no anomalies noted



- Deflector Ring, Segment, & Rivets – no anomalies noted

