Export Control Classification

Contains no Technical Data (X)

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P&W Proprietary Information
A rich history in diagnostics

Over 6,500 aircraft mounted / engine diagnostic systems delivered

Over 50 Supplemental Type Certificates (STC’s), OEM SB & Baseline installation

P&WC validated data quality and analytics / trusted global P&WC 24/7/365 Support
P&WC DIAGNOSTIC BENEFITS

Availability

- AOG Avoidance & Rapid RTS
- ECTM
- Optimize LM Accurate Planning
- Automation Man Hours

Cost Reduction

Ultimate Peace of Mind

Maintenance Optimization

For Planning Purposes Only
CARAVAN FAST™ SOLUTION

**Engine monitoring from start-up to shutdown**
- Monitoring 13 engine and aircraft parameters
- Engine events triggered and recorded in flight
- Pilot triggered event recordings
- Cumulative operational data
- Optimized stable trend recording
- CT and PT blade creep counting

**Automated cellular data off-load after each flight to DAC Portal**
- Automatic e-mail notification of events within 15 minutes after shutdown
- Enables remote trouble shooting of events/faults for rapid return to service
- Trend, creep data submitted to DAC

**Supports requirements for extended warranty, HSI and TBO options**

Export Classification: No technical data
CARAVAN FAST™ DATA STREAM

A2D → GSM → DPHM Server(s) → CAMP Server (WebECTM®)

- After each flight
- Engine event data emailed to Customer (after each flight)
- ECTM data available (after each flight)

Export Classification: No technical data

P&WC Proprietary Information

For Planning Purposes Only
DAC trend analysis & on-line access to creep data requires subscription

Training webinars available weekly

Online training material available on CAMP portal
FAST™ - ECTM® QUALITY & QUANTITY

**Quality and Quantity of automatic vs manual data acquisition**

- **365 days**
  - Manual data: 192 Records
  - Automatic data: 363 days, 561 Records

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Export Classification: **No technical data**
EVENT EXAMPLE – EMAIL ALERT

ITT Above 800°C

Example event where the email is received within minutes after engine shutdown.

WebECTM can then be accessed and the ‘trace file’ for this event can be reviewed to plot all engine parameters to further understand and disposition the event.

Engine data available at the Operator’s offices within minutes of aircraft landing
CARAVAN FAST™ INSTALLATION

Installation Time
Approx. 40 Man Hours

Installation Location
FAST™ Processor has 2 location options in the aircraft tail and under the co-pilot seat.

Location
Option 2
Option 1

2 sources of power; Essential and Battery bus. Ensures data is transferred even if the aircraft is depowered mid transmission.

Once the transmission is complete FAST™ will disconnect from the bus.

Typical transmission time is ~4 minutes.
CARAVAN FAST™ VALUE

Reduce Operating Costs
Maximize aircraft availability
Reduce unscheduled removals
Avoid AOG’s & AOG delay reduction
Rapid return to service – remote troubleshooting

Improve Labor Efficiency
Automate engine data after each flight
Automate ECTM® & FDR data input and administration

Increase Accuracy
Automate trending and usage reports (w/ subscription)

Optimize Maintenance Planning
Improve insight to manage aircraft usage
Assure compliance with extended TBO program

PROVEN TURNKEY END TO END SOLUTION
Cessna Caravan 208A & 208B

- FAA
- EASA
- Transport Canada

STC Documentation includes:

- Installation Manual
- Instructions for Continued Airworthiness
- Weight & Balance
- Electrical Loads
- Flt Manual Supplement
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