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25 YEARS 1998-2023

NON DESTRUCTIVE EXAMINATIONS

NON-DESTRUCTIVE EXAMINATION REPORT

Client:	Alberta Aero Engine Ltd.	Report Number:	LCR-6002
Location:	Red Deer, AB	Date:	8 Jun 2026
Item Examined	Continental O-200-A Engine Overhaul (50pcs)	Job / P.O.:	5725
Specification:	N/A	Procedure:	LP-1D/ MT-1
Directive:	N/A	Dispatch No.:	D2026-0368
		Revision:	N/A

Equipment:	Model:	Serial No:	Calibration Date:
Penetrant	ZL-27A	Batch ID: 5012495	N/A
Emulsifier	ZR-10E	Batch ID: 7873-5	N/A
Developer	SKD-S2	Batch ID: 5017596	N/A
Blacklight	UV-100N	COUG05	Verified: 8 Jun 2026
Cleaner/Remover	SKC-S	Batch ID: 5037784	N/A
MPI Bench	Magnaflux AD-945L	93340	Due: 6 Oct 2026
Particles	14AM	Batch ID: 5030504	N/A

EXAMINATION RESULTS

Aircraft:	N/A	Serial:	N/A	TAFT:	N/A
Model:	N/A	Registration:	N/A	Cycles:	N/A



Part A:

CMI Standard Practices Maintenance Manual M-0, Ch 11, Change 6.
Engine Serial Number 230913R
W.O.#14363

A fluorescent liquid penetrant and magnetic particle inspection were performed on the following components.

Part Number	Description	Qty	Method	Results
643250	Crankcase Halves	2	LPI	There were no rejectable indications.
627307A10	Rear Case	1	LPI	There were no rejectable indications.
A50352	Oil Sump	1	LPI	Refer to "Part B" of this report
21160	Oil Pump Cover	1	LPI	There were no rejectable indications.
35018	Tach Shaft Housing	1	LPI	There were no rejectable indications.
35020	Oil Screen Housing	1	LPI	There were no rejectable indications.
22757	Oil Filter Housing	1	LPI	There were no rejectable indications.
40646/40247	Intake Flange	4	LPI	There were no rejectable indications.
35145A1	Induction Manifold	1	LPI	There were no rejectable indications.
530163	Pushrod Flanges	4	LPI	There were no rejectable indications.
642267	Vacuum Pump Adapter	1	LPI	There were no rejectable indications.
653012	Crankshaft (S/N L219303N)	1	MPI	There were no rejectable indications.
530184	Connecting Rods	4	MPI	There were no rejectable indications.
530184	Connecting Rod Caps	4	MPI	There were no rejectable indications.
35016	Crankshaft Gear	1	MPI	There were no rejectable indications.
628421	Camshaft	1	MPI	There were no rejectable indications.
530535	Camshaft Gear	1	MPI	There were no rejectable indications.
530535	Camshaft Gear	1	MPI	Refer to "Part B" of this report
627275	Thru Bolt	2	MPI	There were no rejectable indications.
53046	Alternator Pulley Hub	1	MPI	There were no rejectable indications.
53047	Alternator Pulley Sleeve	1	MPI	There were no rejectable indications.
531325	Alternator Pulley Gear	1	MPI	There were no rejectable indications.
655845	Magneto Drive Gear	2	MPI	There were no rejectable indications.
23355	Oil Pump Drive Gear	1	MPI	There were no rejectable indications.
23354	Oil Pump Driven Gear	1	MPI	There were no rejectable indications.
639614/ 639615	Rocker Arms	8	MPI	There were no rejectable indications.
3660	Front Cam Gear (Vac Pump Drive)	1	MPI	There were no rejectable indications.
625937	Vacuum Pump Drive	1	MPI	There were no rejectable indications.

Part B ATTACHED (Items that require further evaluation by client)

The described maintenance has been performed in accordance with the applicable airworthiness requirements. This is an evaluation based upon the above specification, not a guarantee.	STAMP	REG	OT	KMS
				
Technician: 	CGSB Level /Number: <u>II/209167</u>	Client Signature: <u>AS PER P.O.</u>		

PART B:

THE ITEM(S) IDENTIFIED BELOW IS/ARE NOT ELIGIBLE FOR MAINTENANCE RELEASE DUE TO ONE OR MORE OF THE FOLLOWING CONDITIONS:

- a.) The item(s) are rejected in accordance with the above listed specification / published limits
- b.) The results of the inspection must be evaluated against the applicable specification/published limits
- c.) There are no published limits available for evaluation of the item(s) listed / inspection for information only

CMI Standard Practices Maintenance Manual M-0, Ch 11, Change 6.


Engine Serial Number 230913R

W.O.#14363

A fluorescent liquid penetrant and magnetic particle inspection were performed on the following components.

Part Number	Description	Qty	Method	Results
530535	Camshaft Gear	1	MPI	There is a crack indication in a weldment measuring ~1/4" in length as marked.
530535	Camshaft Gear	1	MPI	There is missing material in a tooth of the gear as marked.

The described maintenance has been performed in accordance with the standard requested and in accordance with the CGSB Code of Conduct. These item(s) are not eligible for maintenance release.

Technician: 

CGSB Level /Number: 7/209107

Client Signature: 