

SERVICE BULLETIN**SB21-03**

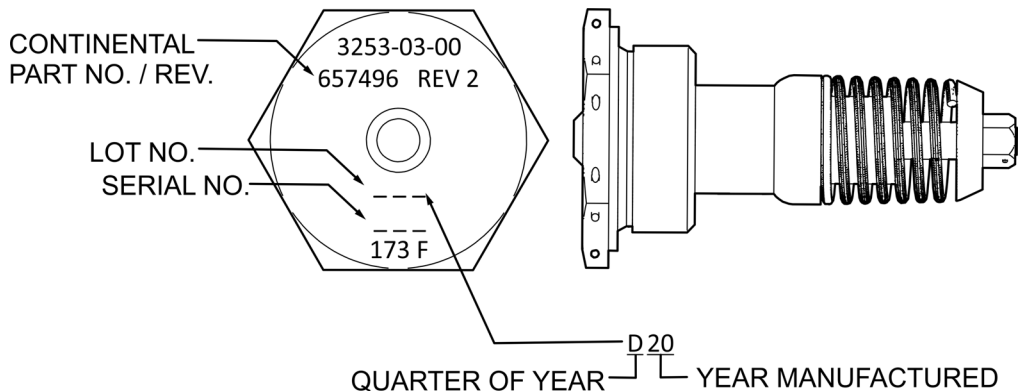
Compliance Will Enhance Safety

TECHNICAL PORTIONS
FAA APPROVED**SUBJECT:** Potential Failure of Oil Temperature Control
Valve Part No. 657496**PURPOSE:** Notify customers of nonconformity in Part No. 657496 Oil Temperature
Control Valve manufactured in Q4 (fourth quarter) of 2020.**COMPLIANCE:** During the next scheduled oil change, or before next flight if experiencing oil
temperature indications near or greater than the specified operating limits.**MODELS****AFFECTED:** Continental Aerospace Technologies new and rebuilt engine model specifications
(I0550N, TSI0550C, TSI0550K, TSI0550N, TSI0F550K) using Oil Temperature
Control Valve (Vernatherm) Part No. 657496.**I. GENERAL INFORMATION**

The supplier of Continental Part No. 657496, Oil Temperature Control (Vernatherm) Valve Assembly, has identified a discrepancy in one lot of Part No. 657496. Affected units have a potential to leak internally and fail to actuate the piston assembly. Upon failing, these units will remain in the “cold” position, providing only limited oil flow through the engine oil cooler.

II. FAULTY UNIT IDENTIFICATION

The lot number is etched on the cap of the assembly below the part number in the location shown in Figure 1. Remove and replace affected Part No. 657496, Vernatherm Assembly marked with lot number **D20** (2020Q4) with a serviceable unit.

**Figure 1. Oil Temperature Control Valve****III. AFFECTED ENGINE SERIAL NUMBERS**

The listed engine serial numbers in Table 1 may have been assembled using the faulty oil temperature control valve assemblies. Inspect the affected engine serial numbers according to the instructions in Section IV. Return spare parts exhibiting lot number **D20** to Continental for a serviceable replacement or refund. If Part No. 657496 was replaced between December 13, 2020 and March 11, 2021, your engine may also be affected - consult the engine log book.

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Table 1. Engine Serial Numbers

Engine Model	Serial Number	Engine Model	Serial Number	Engine Model	Serial Number
R-I0550N7B ¹	1039897	TSI0550K2B	1040214	I0550N68B	1040479
R-I0550N43B ¹	1040063	TSI0550K2B	1040219	I0550N68B	1040503
R-I0550N68B ¹	1040095	R-I0550N43B ¹	1040229	TSI0550K2B	1040509
R-I0550N68B ¹	1040096	I0550N70B	1040234	I0550N70B	1040554
R-I0550N68B ¹	1040120	TSI0550K2B	1040238	I0550N70B	1040557
R-I0550N41B ¹	1040143	I0550N47B	1040283	TSI0550K2B	1040581
R-TSI0550C20B ¹	1040157	I0550N70B	1040288	I0550N43B	1040597
R-I0550N68B ¹	1040161	TSI0550K2B	1040289	TSI0550K2B	1040645
R-I0550N43B ¹	1040174	R-I0550N7B ¹	1040368	I0550N70B	1040651
I0550N70B	1040199	R-I0550N7B ¹	1040424	TSI0550K2B	1040660
TSI0550K2B	1040200	TSI0550K2B	1040459		
TSI0550K2B	1040202	I0550N43B	1040467		

1. The R- prefix in the Engine Model indicates the engine is **Rebuilt**.

IV. CORRECTIVE ACTION

Remove and replace the Oil Temperature Control Valve (Vernatherm) on affected engines according to the engine instructions for continued airworthiness. If oil temperature exceeds 240°F for more than 30 seconds, perform an oil change according to instructions in M-0, Standard Practice Maintenance Manual.

V. WARRANTY

The actions required to comply with this Service Document are covered, up to the Eligible Allowance provided for reimbursement, as shown below. Standard warranty practices apply. Visit the Continental web site at www.continental.aero to obtain copies of Continental Warranty Policies.

Complete and email a copy of the linked [Compliance Form](#), along with a copy of the work invoice (and a copy of the repair agency's W-9 if the repairs are accomplished by a repair facility in the Continental United States) upon completion for reimbursement. Continental reserves the right to request copies of invoices and maintenance records to verify warranty applicability.

Allowances/Reimbursements

Eligible Allowances for Reimbursement		Labor Hours ¹
1	Inspect Part No. 657496 oil temperature control valve for applicability	0.25
2	Remove and replace installed oil temperature control valve	2.75

1. at published shop rate

Contact Continental Technical Services at the phone numbers or email address listed below if you have any questions concerning the technical content of this Service Document.

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