



U.S. Department
of Transportation
**Federal Aviation
Administration**

Aircraft Certification Service
Compliance & Airworthiness Division

Fort Worth ACO Branch
10101 Hillwood Parkway
Fort Worth, TX 76177

In reply refer to: 7F0-22-6349

Mr. Keith Chatten
Superior Air Parts, Inc.
621 South Royal Lane, Suite 100
Coppell, TX 75019

Dear Mr. Ross:

Global Alternative Method of Compliance (AMOC) to
Airworthiness Directive (AD) 2014-05-29, Docket Number FAA-2007-0051

The Federal Aviation Administration (FAA) received your letter, dated March 21, 2022, requesting FAA approval of a global AMOC to AD 2014-05-29. AD 2014-05-29 requires that IO 520 series engines with certain Superior Air Parts, Inc. (SAP) investment cast cylinder assemblies installed, complete initial and repetitive inspections and compression tests to detect cracks in those cylinders.

You are proposing an AMOC to paragraph (i)(2) of AD 2014-05-29, which requires replacement of the cylinder assembly upon reaching 12 calendar years since installation. Subsequent to issuance of AD 2014-05-29, the FAA approved a global AMOC on April 7, 2020, to increase this compliance time to 21-years Time-In-Service (TIS). You propose to extend the calendar limit to 3-years TIS by following the same tests and inspections every 50 hours TIS or annually, whichever comes first, that were identified in the previous AMOC. You contend that continued compression checks, visual inspections, leak checks, and borescope inspections will continue to adequately mitigate the unsafe condition identified in the AD. You also mention that there have been no incidents or accidents caused by cylinder head separation since issuance of the AD and approval of the subsequent AMOC.

The Fort Worth ACO Branch approves your AMOC proposal to paragraph (i)(2) of AD 2014-05-29 to extend the calendar limit by an additional three years, to 24-years TIS, as requested.

In accordance with FAA Order 8110.103B, the following conditions apply:

- This AMOC is transferable with the aircraft to another operator who operates the aircraft under U.S. registry.
- Before using this AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local Flight Standards District Office/Certificate Holding District Office.

- All provisions of AD 2014-05-29 that are not specifically referenced above remain fully applicable and must be complied with accordingly.

If you have any questions or need additional information, please contact Justin Carter by telephone at (817)222-5146 or by email at Justin.Carter@faa.gov.

Sincerely,

S. Frances Cox
Acting Manager, Fort Worth ACO Branch
Compliance & Airworthiness Division
Aircraft Certification Service

cc: Jacob Fitch, AIR-7F2 COS Focal
Christopher Cooper, AOPA