



Addendum 3 to Safety Alert for A100-M radial type turbochargers

Dear Madam, Dear Sir

We herewith inform you about the exact turbocharger types and sizes that are affected by the Safety Alert issued with Service News No 02/2016.

All A100-M radial turbocharger types not referenced in this document are not affected by the Safety Alert and can be operated without special restrictions and as per normal instructions given in the Operation Manual.

Reference documents

The following documents listed refer to the Safety Alert concerning the A100-M radial type turbochargers. Please revert to each of these documents for the specific content stated:

- Service News No 02/2016 Safety Alert
- Addendum 1 Detailed safety measures for operators
- Addendum 2 Additional advice for engine testing activities

Affected turbocharger types

1. Compressor side:

- All **A145-M and A155-M radial** type turbochargers need a modification on the compressor side. The modification consists of a new connection between the compressor casing and bearing casing. New parts needed are compressor casing, fastening strips and bigger fixation screws.
- The introduction of the new design for the two frame sizes aligns all A100-M radial type turbochargers in their bolt size. This is why other frame sizes do not need a modification on the compressor side.

2. Turbine side:

- All turbochargers of the type **A100-M radial (A130-M, A135-M, A140-M, A145-M, A150-M and A155-M) with gas inlet casings featuring a single inlet** will get a new turbine casing (different material, same dimensions) and/or a reinforced external burst protection with slight geometry variation. If needed, insulations supplied by ABB will be adapted to accommodate the reinforced burst protection.

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The above mentioned turbocharger types will be modified by ABB. The cost of the modification related to turbocharger components and ABB services will be covered by ABB.

Unless otherwise expressly set forth, no recommendation contained in this document is to be construed as provided due to a defect in the turbocharger, but merely as an improvement of the turbocharger and/or the maintenance procedures relating thereto. Any actions by the owner/operator as a result of the recommendations are not covered under any warranty provided by ABB and such actions will thus be at the owners/operators own cost and expense.

Modification schedule - next information

Next steps: As a top priority, ABB is currently designing new turbine side hardware for the affected radial type turbochargers of the A100-M radial family. As this process may influence the outer dimensions of the turbocharger, ABB is in close cooperation with affected engine builders. This process is scheduled to be finished by end of August, 2016.

Customers which have the above mentioned turbochargers installed, will be contacted by their local ABB Service Station or by the engine builder in order to be informed about the concerned radial turbochargers and the planning and coordination of the modification.

The new components will be available for field modifications within 3 to 6 months, depending on turbocharger type and specification. **Please note, that Service News 02/2016 (Safety Alert) with Addendum 1 and Addendum 2 remain in force until the modification on the concerned turbochargers as stated in this Addendum 3 is carried out.**

Further information regarding detailed availability will be issued latest by end of August, 2016.

If you have any questions, please do not hesitate to contact Christoph Baur, General Manager Technical Operations, ABB Turbo Systems Ltd, Switzerland (christoph.baur@ch.abb.com) or if out of office his deputy, Rene Stoverink (rene.stoverink@ch.abb.com).

Safety and quality are top priorities at ABB. We apologize for the inconvenience this matter may cause and would like to thank you for your support.