

T-091 Inspection Limits and Repair

Inspection Limits and Repair

P/N(s): E6889069

Revision: B Issued: 2/05/16

Turbine to Pinion Gear Coupling

Engine Application(s): 250-C28B, -C28C

250-C30, -C30L, -C30M, -C30P, -C30S, -C30R, -C30U, -C30G, -C30G/2, -C30R/1, -C30R/3

250-C40B, -C47B, -C47M

Subject: Inspection and Rework Procedures for the E6889069 Turbine to Pinion Gear Coupling.

Compliance: Any time the Turbine to Pinion Gear Coupling is removed during overhaul. Refer to the

following Figure for Inspection and Rework Limits.

Notes: Refer to OEM's published data for installation, engine operation and disassembly.

Revisions: N/C 1/13/06 Initial Release.

A 8/07/09 Updated EXTEX to TIMKEN.

B 2/05/16 Updated Timken to EXTEX Engineered Products.



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E6889069 Turbine to Pinion Gear Coupling Inspection and Rework Limits

Service Limit	Repair Limit	Corrective Action
Cracks are not acceptable.	No Repair.	Install new or serviceable Coupling
Any inclusion extending into the spline root is NOT acceptable. Nonmetallic inclusions may be acceptable as follows: At Spline teeth radii root corners, provided no progression is evident, AND 0.25 inch maximum length on shaft when not crossing (i.e. parallel to) the material flow lines.	No Repair.	Install new or serviceable Coupling if Service Limit is exceeded.
Maximum of 0.001 inch wear normal to spline tooth profile. ** See Note Below Minimum over pin diameter (measured in two places): 1.3372 inch over 0.060 pins.	No Repair.	Install new or serviceable Coupling if spline wear Service Limit is exceeded.
Spline tooth damage is not acceptable.	No Repair.	Install new or serviceable Coupling if Service Limit is exceeded.
Rough or sharp edges are not acceptable. No imperfections are acceptable after blending.	After blending, spline tooth wear service limits are met.	Blend using crocus cloth or Arkansas stone. Install new or serviceable coupling if Service Limit is exceeded.
	Cracks are not acceptable. Any inclusion extending into the spline root is NOT acceptable. Nonmetallic inclusions may be acceptable as follows: At Spline teeth radii root corners, provided no progression is evident, AND 0.25 inch maximum length on shaft when not crossing (i.e. parallel to) the material flow lines. Maximum of 0.001 inch wear normal to spline tooth profile. ** See Note Below Minimum over pin diameter (measured in two places): 1.3372 inch over 0.060 pins. Spline tooth damage is not acceptable. Rough or sharp edges are not acceptable.	Cracks are not acceptable. Any inclusion extending into the spline root is NOT acceptable. Nonmetallic inclusions may be acceptable as follows: At Spline teeth radii root corners, provided no progression is evident, AND 0.25 inch maximum length on shaft when not crossing (i.e. parallel to) the material flow lines. Maximum of 0.001 inch wear normal to spline tooth profile. ** See Note Below Minimum over pin diameter (measured in two places): 1.3372 inch over 0.060 pins. Spline tooth damage is not acceptable. Rough or sharp edges are not acceptable. No imperfections are

NOTES:

* MPI technique as follows: A) Circular between heads

AND

B) Longitudinal in a coil

** Use of OEM NO-GO gauge 23060761 is permitted in lieu of over pin measurement

TABLE 1