

T-093 Inspection Limits and Repair

Engine Application(s):	250-C30, C30L, C30M, C30P, C30S, C30R, C30U, C30G, C30G/2, C30R/1		
Compliance:	Any time the OEM's published data requires inspection or maintenance allows access to the power turbine pressure oil nozzle.		
Notes:	Refer to OEM's published data for installation, engine operation and disassembly.		
Revisions:	N/C	5/2/06	Initial Release.
	A	8/07/09	Updated EXTEX to TIMKEN.
	B	2/05/16	Updated Timken to EXTEX Engineered Products.

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Nozzle Assembly, Pressure Oil, Power Turbine Support Inspection and Rework Limits

CAUTION: MAKE CERTAIN THAT NO FOREIGN MATERIAL ENTERS THE EXPOSED TUBES OR OPENINGS.

1. If possible, remove the power turbine pressure oil nozzle per OEM instructions. DO NOT BEND THE NOZZLE.
2. If the pressure oil supply nozzle is removed, inspect for alignment of the jet hole as follows.
 - a. Clean jet hole, using a No. 56 twist drill.
 - b. Reverse the twist drill and insert the shank end in the jet hole.
 - c. Establish the alignment holes on a horizontal plane. (See Figure 1)
 - d. Visually inspect for perpendicularity of the jet hole wire. Any visible deviation from perpendicular is cause to scrap and replace the jet nozzle.
3. Hold the pressure oil nozzle in position or clean in place by inserting a No. 52 extra length drill (must be at least 5 in. (127 mm) long, .063 in (1.6 mm) diameter), in the top of the pressure oil nozzle; turn the drill by hand and remove all of the carbon. It may be necessary to clean the drill several times if heavy coking is present inside the stem of the oil nozzle.
4. Use a hand oil can filled with engine oil to ensure that oil will flow through the nozzle and drain out the strut.
5. The final cleaning must allow a .041 in (1.04 mm) stainless steel safety wire to be inserted the full length of the tube to ensure that the nozzle orifice is open. The configuration of the nozzle determines the length of wire required to ensure cleaning of the complete nozzle.
 - a. Stand pipe configuration – 4.75 in (121 mm)
 - b. No stand pipe configuration – 4.00 in (102 mm)
6. Reinstall and flow check pressure oil nozzle per OEM instructions.

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Figure 1.

