ID-0002 Rev J

Mill Spindle Inspection Report

Technician		Cell#		
Serial Number		Date		
Model				
Why is the Spindle being replaced?				
1a. What is the symptom?	Noise Exceeds 140 °F Seized Other			
1b. When does the symptom occur?	spindle running intermittently			
2. Is the spindle physically damaged?	yes no			
3. Other - Describe the issue:				
Mandatory Troubleshooting				
Lubrication				
4. Are there leaks around the sight glass?	,	١	/es no	
5. Did you see 1 to 3 drops of oil during the oil pump cycle?			ves no	
6. Is the lube line for the spindle loose or not fully seated in the fitting? If yes, the following must be answered			/es no	
for a replacement spindle.				
6a. Was the lube line hanging freely inside the head, not fully seated in the fitting, or has any part been damaged?			ves no	
6b. If you answered yes to 6a pictures and video must be submitted. If the line was loose a good video				
of you pulling on the line must be submitted. If damaged good pictures or video must be submitted.			Done n/a	
6c. Have you taken good picture or video of where you found the oil in the spindle head and the condition			Done n/a	
of the oil?				
6d. Is the cut on the end of the lube	e line straight? It must be straight for a proper sea	l with the fitting.	ves no	
Spindle Condition				
Inline Spindles				
7. Has the spindle motor alignment been	verified?		/es no	
8 Has the NCE gap been reset with the correct shim?			ves no Shim dimension Value:	
			Axial Alignment Value:	
			Radial Alignment Value:	
	Belted Spindles			
9. Is the drive sprocket/belt in good condition?			/es no	
10. Is the encoder sprocket/belt in good condition? 11. Has the belt tension been verified?			ves no	
The new the ben tension been vernied?	/es no			
Inline & Belted Spindles 12. Look through the alarm history is there any Z-Axis servo Errors alarms generated? yes no				
13. Has a vibration test been performed? If no, run a test and attach to service notification.			/es no	
14. Has a motor only vibrations test been performed? If no, run a test and attach to service notification.			/es no	
15. Has the spindle been balanced? If no, balance the spindle.			/es no	
16. Is the TSC union or coolant collector making noise?			/es no	
17. Is the spindle taper in good condition?			ves no	
18. Is the spindle fan working?			ves no	
19. Is the spindle fan vibrating?			/es no	
20. On machines equipped with TSC. Did you performed a Vibration analysis with the TSC Union/Adapter			ves no	
removed?				
21. Has the spindle to toolchanger alignm			/es no	
22. Has the push out been verified?	HSK Spindle Only	5	(05 00	
23. Has the grippers been greased? If yes, what grease is being used?			ves no ves no value:	
	Drawbar Condition			
24. Has the drawbar clamp force been ch	ves no value:			
25 . If the spindle is belted with a carbide drawbar has the face runout been verified? If yes, what is the value?			ves no value:	
26.If the spindle is belted what is the drawbar shaft runout?			/alue:	
27. Are the ball bearings and drawbar cup in good condition?			/es no	
Tool Holders Condition				
28. Are the pull studs in good condition?			/es no	
29. Have the pull studs been torqued to spec?			ies no	
30. Are the correct pull studs and tool holders being used?			ves no	
31. Have the tool holders been balanced? If no, balance them.			/es no	

Spindle Deflection Test				
32. Has the Spindle Deflection Test been performed using T-0140? If yes, please what is the push, pull, and lost motion values? NOTE: Please only perform this if steps 1-30 have been performed and verified, and the machine is continuing to have surface finish issues. Total deflections should not exceed 0.0025 for 40 taper and 0.003 for 50 taper. Do not add lost motion to total deflection.	yes no Push Deflection: Pull Deflection: Lost Motion:			
Notes/ Observations:				
Attach this report, an error report, and any relevant documentation to a service notification i	n the Haas Service App.			