ID-0002 Rev I

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				
4. Are there leaks around the sight glass?	,	ye	s no	
5. Did you see 1 to 3 drops of oil during the oil pump cycle?			s no	
6. Is the lube line for the spindle loose or not fully seated in the fitting? If yes, the following must be answered			<u> </u>	
for a replacement spindle.			3 110	
6a. Was the lube line hanging freely inside the head, not fully seated in the fitting, or has any part been			s no	
damaged?				
of you pulling on the line must be submitted. If damaged good nictures or video must be submitted			ne n/a	
6c Have you taken good picture or video of where you found the oil in the spindle head and the condition				
of the oil?	······································	Do	ne n/a	
6d. Is the cut on the end of the lube line straight? It must be straight for a proper seal with the fitting.			s no	
Spindle Condition				
Inline Spindles				
7. Has the spindle motor alignment been verified?			s no	
8. Has the NCE gap been reset with the correct shim?			s no	
			al Alignment Value:	
		Ra	dial Alignment Value:	
Belted Spindles				
9. Is the drive sprocket/belt in good condi-	tion?	ye	s no	
10. Is the encoder sprocket/belt in good condition?			s no	
11. Has the belt tension been verified?			s no	
Inline & Belted Spindles				
12. Look through the alarm history is there any Z-Axis servo Errors alarms generated?			s no	
13. Has a vibration test been performed? If no, run a test and attach to service notification.			s no	
14. Has a motor only vibrations test been performed? If no, fun a test and attach to service notification.				
15. Has the spindle been balanced r if no, balance the spindle.				
17. Is the spindle taper in good condition?			s no	
18. Is the spindle fan working?			s no	
19. Is the spindle fan vibrating?			s no	
20. On machines equipped with TSC. Did you performed a Vibration analysis with the TSC Union/Adapter				
removed?			s no	
21. Has the spindle to toolchanger alignment been verified?			s no	
HSK Spindle Only				
22. Has the push out been verified?			s no	
23. Has the grippers been greased? If ye	s, what grease is being used?	ye	s no value:	
	Drawbar Condition			
24. Has the drawbar clamp force been checked? If yes, what is the force value?			s no value:	
 25. If the exindle is belted what is the drawbar has the face runout been verified? If yes, what is the value? 26. If the exindle is belted what is the drawbar shaft runs ut? 				
27. If the spinore is belied what is the drawbar shall fundul? 27. Are the ball bearings and drawbar cup in good condition?				
Are the ball bearings and drawbar cup in good condition? Tool Holders Condition				
28 Are the pull studs in good condition?				
29 Have the pull studs been torqued to spec?			s no	
30. Are the correct pull study and tool holders being used?			s no	
31. Have the tool holders been balanced? If no, balance them.			s 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 in the Haas Service App.				