Spindle Motor Inspection Report

Technician		Cell#	
Serial Number		**Date**	
Model			

Type of Spindle Motor

1. What is the spindle taper?	20	30	40	50	HSK					
2. What is the spindle motor RPM?	4000	6000	7500	8100	10000	12000	15000	20000	30000	50000
3. Is the spindle motor belt or inline driven?	Belt	Inline								
4. What is the machine's software version?										

Why is the Spindle Motor being replaced?

5. What alarms are generated?		
6. When does the alarm/symptom occur?		
7. Is the alarm resettable?	Yes	No
8. Is the spindle motor physically damaged?	Yes	No

9. Other - Describe the issue:

Spindle Motor Troubleshooting

10. Does the spindle motor run?	Yes	No
10b. If so, does the issue occus while the spindle motor is running?	Yes	No
10c. Is there excessive noise while the spindle motor is running?	Yes	No
10d. For Inline motors only: Is there a poor finish on parts?	Yes	No
11. Is the program too aggressive for the spindle motor?	Yes	No
12. For TSC machines only: Has the TSC union been inspected for leaks?	Yes	No
13. Has there been a vibrational analysis test?	Yes	No

Electrical Troubleshooting

14a. Has the J-Box been inspected?	Yes	No
14b. Does the temperature sensor work?	Yes	No
14c. Are all the connections secure?	Yes	No
15. Have you tested the following:		
15a. Secure cable connections?	Yes	No
15b. Spindle fan?	Yes	No
15c. Vector drive?	Yes	No
15d. Regen?	Yes	No
15e. Wye/Delta?	Yes	No
16a. Has the encoder system been checked for wear or damage?	Yes	No
16b. Has the encoder feedback been checked for accuracy?	Yes	No
16c. For GB with belted encoder: Has the encoder pulley/belt been inspected?	Yes	No
16d. Has runout and play been checked for within the encoder?	Yes	No

Motor Ohm Out Test

17. Measure between motor leads or terminals and enter the value in ohms:

T1 & T4: _____	T2 & T5: _____	T3 & T6: _____
T2 & T4: _____	T3 & T4: _____	T1 & T5: _____
T3 & T5: _____	T1 & T6: _____	T2 & T6: _____

18. Measure between each individual motor lead or terminal and the motor's armature:

T1 & Motor Chassis: _____	T2 & Motor Chassis: _____	T3 & Motor Chassis: _____
T4 & Motor Chassis: _____	T5 & Motor Chassis: _____	T6 & Motor Chassis: _____

Notes/ Observations:

Attach this report, an error report, and any relevant documentation to a service notification in the Haas Service App.