

To: Chuck O.

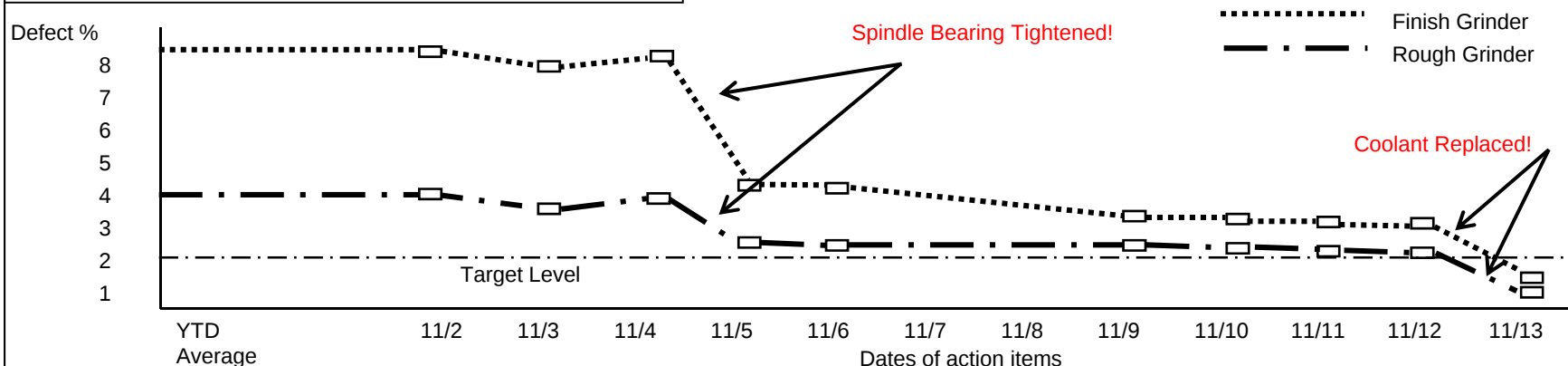
From: Art S.

Date: 12/10/2006

Countermeasures

Suspected cause	Action Item	Responsible	Due	Finding
1. Dirt and contamination	Daily 5S & PM tasks	Tony T/L	11/2	Conducting daily. No issues
2. Grinding wheel set up check	Grinding wheel set up check	Tony T/L	11/4	Checked out okay
3. Manual offset function	Check offset function	Tony T/L	11/4	Checked out okay
4. Spindle bearing loose	Spindle bearing check	Ed (Maint)	11/5	Loose bearing cap. Tightened.
5. Clamp & locator damage	Clamp & locator check	Ed (Maint)	11/5	Nothing abnormal
6. Grinding wheel balance	Grinding wheel check	Tony (T/L)	11/5	Nothing abnormal
7. Incoming part dimensions	Measure part dimensions	Janet (QC)	11/9	Within spec
8. Poor material hardness	Measure hardness	Janet (QC)	11/9	Within spec
9. Abnormal surface finish check	Surface finish check	Janet (QC)	11/9	Within spec
10. Grinding conditions abnormal	Grinding conditions check	Mary (Eng)	11/13	Nothing abnormal
11. Coolant concentration	Measure concentration	John (Maint)	11/13	Contaminated tanks. Replaced.
12. Wheel dressing check	Check conditions	Mary (Eng.)	11/13	Nothing abnormal

Effect Confirmation



Follow Up Actions

Investigation Item	Responsibility	Due	Status
1. Establish coolant check PM	Ops & Maintenance	11/15	Complete
2. Establish bearing check PM	Ops & Maintenance	11/15	Complete
3. Communicate findings to similar plants	Tom Eng Mgr.	11/22	In-Process
4. Discuss bearing issue with OEM	Tom Eng Mgr.	11/29	Pending