

Langa Nhlabathi



Mzwakhe Simelane



APPENDIX 9: LOESCHE MILLS (UNITS 5 & 6)

TASK: INSPECTION, REPORTS & REPAIRS

SERVICE ACTIONS

NOTE: Ensure that you are familiar with the risk assessment, health and safety precautions and hazards as well as the isolations pertaining to this instruction before attempting any of the following:

1. Date of inspection:
2. Mill number:
3. Mill running hours inspection:
4. Take roller tyre wear measurements on each roller assembly and record same:
5. a..... b. c.
6. Measure table segment wear at three different places and record wear
.....
7. Ensure that all three roller assemblies turn freely
8. Check tyres and tables segments for any signs of cracks
9. Measure and record clearance between each tyre and table segment
10. a..... b. c.
11. (correct clearance to be 6 mm)
12. Inspect louvre and armour ring for wear.
13. Inspect roller assembly armouring and mill body liners for wear
14. Inspect dam ring segment for wear 115 mm
15. Check and record throat gap
(measure in at least three places and record average gap)
16. Check classifier blade settings, ensure that all blades are set in the same plane, and check condition of blades.
17. Check and ensure that the classifier blade locknuts are all tight
18. Inspect classifier grit return flaps for wear and ensure that all operate freely
19. Check for wear on classifier cone sections
20. Check and ensure that all locking devices are intact and all bolts and nuts in position and tight.
21. Inspect reject scrapers for damage or wear.
22. Take sample roller assembly lubricant and record condition.
23. Check gearbox oil level (standing level) and take oil sample for analysis
24. Clean gearbox oil filter and breathers thoroughly.
25. Check gearbox oil cooler for cleanliness
26. Check the following systems for any signs of leaks:
 - Gearbox lubrication oil system
 - Hydraulic loading system
 - Gearbox cooling water system
27. Check hydraulic loading accumulator nitrogen pressure (Correct pressure 35 bars - refer to hydraulic section in manual for charging procedure.)
28. Check mill internally for signs of wear
29. Take gearbox and roller assembly lubricant sample
30. Inspect ducts for possible damage
31. Tighten cover bolts
32. Inspect the labyrinth seal
33. Check and record labyrinth clearance between output flange and seal (may not exceed 1.5 mm)
34. Check and record clearance between Labyrinth and table sealing (may not exceed 2 mm)
35. Check and Record the condition of the protective lining in the raw coal feed pipe for signs of wear and renew if necessary
36. Check the condition of all seals and gaskets
37. Check the inner doors for proper sealing
38. Repair all identified Primary and Seal air leaks on the system
39. Seal Air Ring main covers under the dust Traps, should be opened at every mill inspection and possible Fly ash deposits removed.

40. Check and record seal air pressure supplied to the rocker arm
41. Check and record buffer stop setting
42. Check pneumatic components for cleanliness and sound operation
43. Check accumulator nitrogen pressure 3.5 MPa
44. Clean SA fan filters
45. Clean hydraulic oil filter
46. Check for erosion wear on all mill internals

WITNESS POINT: