

CHAPTER 5 – CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Based on the results and discussion in this research, the following conclusions were obtained:

1. Reducing unscheduled breakdown was successful with the program carried out in accordance with chapter 4, where physical availability which was previously 76% grew to 85%, and achieved OB and coal in accordance with the target of 12 million BCM Over Burden and 1 million coal
2. In 2023 Compare to 2022, The PA of PC1250 was greatly and consistently in 85% with the most highest of the 2023 year is in June with 95% PA, after it we monitor the PA of PC1250-8 and in November, the PA was drop to 79% due to breakdown undercarriage, and replacement of undercarriage pc1250-8, we wish this typical performance of unit can sustain through year
3. After repairs were carried out, the results showed that damage to the Hydraulic System had decreased from 283 breakdowns in 2022 to 2 breakdowns in 2023
4. The 5W1H method is quite helpful in simplifying the search for a solution to a root problem.
5. When implementing improvements, you must still pay attention to targets. It is not necessarily the case that the solution chosen/implemented will produce the impact that the target is expected to have.
6. Requires audit tools that function to ensure that improvement activities are continuously carried out.

5.2 Recommendations

This To keep the unit in good performance and high availability, several efforts are required, including:

1. In maintaining unit availability, we are required to consistently carry out Mandatory Jobs. Communication must always be carried out within the internal maintenance team and production team.
2. Continue reviewing and monitoring the implementation of the next Hydraulic system project
3. For future research, you can use the MTBF and MTTR indicators as benchmarks for success.
4. Future research can use the Fault Tree Analysis method to analyze problems with the PC1250 EXCAVATOR Hydraulic System components.

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