

CHAPTER 5 - CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusion

Based on the analysis and discussion of the PC1250-8 EX2009 life cycle cost analysis through the general overhaul program which was carried out in chapter 4, the following conclusions can be drawn:

1. The life cycle cost analysis carried out can provide an idea of how optimal the equipment is in contributing to the company's revenue or profits.
2. The life cycle cost analysis carried out can provide recommendations to the company in preparing equipment investment before existing equipment is scrapped so that it can minimize production delays due to waiting for post-scrap equipment.
3. The general overhaul program has an impact on increasing physical availability and utility availability so that it also contributes positively to revenue even though the increase in physical availability does not have a significant impact on productivity, because productivity is also influenced by other than mechanical equipment factors such as operator skill, material loading and work area.
4. The general overhaul program carried out can increase the economic life or longer service life. From the scrap plan at the age of eight years (40,000 hours) it can be projected to be optimal up to the age of seventeen years (70,000 hours)

5.2 Recommendations

After conducting research, analysis and discussion, suggestions are given for further research and for the progress of PT. XYZ is as follows:

1. Life cycle cost analysis should also be carried out not only on PC1250-8 EX2009, but in the future it can be carried out on all other equipment group identity such as EX2600/2500, PC2000, EX1200 PC850, HD785, HD465, D375, D155, GD825, GD705 .

2. Implementation of the general overhaul program requires very thorough preparation starting from manpower, tools, lifting equipment, safety support equipment, parts and components. This readiness can affect the quality and duration of work. For example, the availability of components and parts from distributors may not necessarily be available at a short time, so proper planning and coordination is needed so that during the implementation of the general overhaul the delay can be minimized.
3. In order to reach the optimum life of the equipment, apart from carrying out general overhaul, it is highly recommended to carry out extra ordinary quality maintenance programs such as Reability Centered Maintenance, Condition Monitoring Index, mechanical and staff competency development and other activities to support optimal equipment performance.
4. Development of analysis using digital technology that has been carried out through machine learning must always be prioritized and prioritized to support comprehensive analysis in providing technical recommendations and decisions that are fast, precise and accurate so that equipment performance can be maintained according to the target or as planned.

APPENDIX

Procces GOH of PC1250-8 EX2009





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