CHAPTER 5

CONCLUSSIONS AND SUGGESTIONS

In Chapter 5, the conclusions from the research and suggestions for further research will be discussed.

5.1 Conclussions

From the research that has been carried out, it can be concluded:

- 1) At the Roller Tyre measurement point it was found that at the measurement point of 0 mm 700 mm, the highest roller tyre wear occurred at the point of 300 mm 680 mm with the greatest wear occurring at the point of 500 mm with a wear depth of 17 mm.
- 2) From the calculation of roller tire running hours, roller tyre 2 has the shortest running hours compared to the other four roller tyres, which is 585.21 hours.
 - From the calculation of the wear rate data, roller tyre 2 has the higher wear among the four roller tyres with an average wear rate of 70,329.7 mm³/hour.
- 3) Based on the Kruskal-Wallis test conducted, it was found that the four roller tyres had a significant value greater than 0.076, the value was greater than 0.05, so it could be concluded that there was no difference wear in the average of the four roller tires.

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5.2 Suggestions

- 1) Do regular inspections to avoid serious wear on roller tyre.
- 2) Create a new design so that the grinding of material is evenly distributed and does not rely on roller tyre 2, which is causes roller tyre 2 to share the highest wear among the other four roller tyre