

M&MTWS

TYRE & WHEEL SOLUTIONS

On-Site findings from visit to Active Hire
Date: 2015/01/22
Machine Type: CAT 422F
Tyres Supplied: 12" Solid Cushion
Tyres



Executive Summary

Client	Active Hire		
Client Manager + Position	Hendrik		
Workshop on site	Hendrik		
MMTWS Sales and Technical support	Shawn Hockley and Leonette Kriek		
Date of Visit	2015/01/22		
Machine Type	CAT		
Fleet Number of Machine	422F		
Description of Tyres Fitted:	2x4 TLB Front Tyres		
Application (Mining / Construction / Agriculture)	Construction		
Site Conditions	Construction/Gravel/Mud		
Date Tyres fitted	30 January 2014		
Cost of Tyres	R12995:00		
No of hours worked	Machine hours at date fitted:	0	Hours to date 1583hrs
	Machine hours at site visit:	1583	
Tyre wear to date from 50mm originally.	Front – right	12.73mm	
	Front – left	12.39mm	
	Average	12.56mm	
Projected hours to 50mm Tread line based on usage to date	3500hrs		
Note: Initially wear will be faster as the tread width is broader as the tyre becomes older			
Projected hours below Tread line Note this is Bonus hours which we expect and have not been included in the Projected Hours calc above	100		
Manufacturers Projection under similar conditions to Group 5(SASOL WAX)	2000-3500		

REPORT

1. Background

The machine works in Dirt Terrain at Active Hire. In deciding which tyres should be used for this clients requirements, the following was taken into consideration –

- Cushion effect to ensure that the machine was not negatively affected;
- The MMTWS was estimating a three times durability in comparison to a pneumatic tyre; and
- The proposition would be the most cost effective solution for the customer.

12” Solid cushion Front TLB tyres were recommended for this application.



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Cushion effect to ensure machine is not negative affected.



Second phase in the life of the tyre provides an extra 60% longer life.

2. Details of the site visit

The visit was conducted by MMTWS on 2015/01/22. The health and safety representative on site (N/A). The machine was visited on site and measurements were taken.

3. Fitment

The fitment of the tyres was done on site at Active Hire on instruction from Hendrik. The fitment was done by the staff.

4. Measurements

The following measurements were established –

- Front right tyre 37.27mm tread left
- Front left tyre 37.61mm tread left

The average tread left on the tyres on 2015/01/22 was 37.44mm

5. Photo Gallery



Pic 1: Showing front right tyre 37.27mm tread left

Pic 2: Showing front left tyre 37.61mm tread left

Pic 3: Hour meter on machine – 2015/01/22

6. **Conclusion**

The 12" Solid cushion tyres had a tread depth of 50mm when new. There was an average of 12.56mm wear on the tyres over a 1583 hour period. Therefore, according to the wear patterns being demonstrated, a total of hours exceeding 5000hrs are projected on this set of tyres. There are two phases in the life of the tyre. The first phase wears only on the lugs and the second phase wears on the remaining lugs and centre cushion built into the tyre. The second phase provides a 60% longer life because there is an increase in the contact area is increased.

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