



On-Site findings from visit to	WBHO/TIBER
Date:	2015/03/04
Machine Type:	Bobcat
Tyres Supplied:	Skid Steer Solid cushion (10")

Executive Summary

Client	Hire All		
Client Manager + Position	Derek		
Workshop on site	Savas		
MMTWS Technical Support	Leonette Kriek		
Date of Visit	2015/03/04		
Machine Type	Bobcat		
Fleet Number of Machine	BSK 11		
Description of Tyres Fitted:	Skid steer Dirt Terrain (10")		
Application (Mining / Construction / Agriculture)	Construction		
Site Conditions	Mud and Concrete		
Date Tyres fitted	3 February 2015		
Cost of Tyres	R6500:00		
No of hours worked	Machine hours at date fitted:	2237.4	Hours to date 148.9
	Machine hours at site visit:	2386.3	
Tyre wear to date	Front – left	1.6mm	
	Rear – left	1.5mm	
	Rear – right	3.5mm	
	Right – front	2.1mm	
	Average	2.2mm	
Projected hours to 40mm Tread line based on usage to date	2400 hrs		
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	50		
Manufacturers Projection under similar conditions	1500-2100		

	MMTWS	Pneumatics
Cost	R6500.00 (rim included)	R3150:00 (12 ply without rim)
Downtime/Tyre repairs	None	As per current records
Estimated Hours	2400	850
R/hour	R 2.71p/h	R 3.71 p/h

REPORT

1. Background

The machine works in Dirt Terrain on WBHO/TIBER construction site. 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.

The Solid Skid Steer tyres were recommended for this application. The machine was fitted with 10” Solid cushion tyres



The Skid Steer tyres were recommended for this application.



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 Technical Support on 2015/03/04. The machine was visited on site and measurements were taken.

3. Fitment

The fitment of the tyres was done at Hire All Head Office on instruction from Derek. The fitment was done by Hire All.

4. Measurements

The following measurements were established –

- Front left tyre 38.40mm tread left
- Rear left tyre 38.50mm tread left
- Rear right tyre 36.50mm tread left
- Right front tyre 37.90mm tread left

The average tread left on the tyres on 2015/03/04 was 37.82mm.

5. Photo Gallery

<p>1.</p> 	<p>2.</p> 
<p>3.</p> 	<p>4.</p> 
<p>Pic 1: Showing front left tyre Pic 2: Showing rear left tyre Pic 3: Showing rear right tyre Pic 4: Showing right front tyre</p>	

6. Conclusion

The 10" Solid skid steer tyre had a tread depth of 40mm when new. There was an average of 2.2mm wear on the tyres over a 148 hour period. Therefore, according to the wear patterns being demonstrated, a total of hours exceeding 2400hrs 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.

7. Details of person conducting visit

**Shawn Hockley:-Technical support 011 894 4471
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