

Undercarriage Condition Report



Customer:	Minespec Parts
Site:	Nebo Yard
Machine ID:	

Carried Out By:	S. Berge
Inspection Date:	18/09/2023
Issued To:	S. Ross

Make:	Hitachi
Model:	EX3600
Serial #:	

Machine Hours:	
Travel Hours:	
Travel Ratio:	

Component	Installation Hours		Component Hours		
	Machine	Travel	Machine	Travel	Ratio
Track Shoes					
Sprockets					

Wear Data Feature	Left Side			Right Side			Average			Life Remaining*
	Worn (mm)	Worn (%)	Exp. Life* (hrs)	Worn (mm)	Worn (%)	Exp. Life* (hrs)	Worn (mm)	Worn (%)	Exp. Life* (hrs)	
Shoe Pitch				5.0	42%		5.0	42%		
Shoe Roller Path				8.0	44%		8.0	44%		
Shoe Drive Lug (Driven Flank)				3.0	17%		3.0	17%		
Shoe Drive Lug (Non-Driven Flank)				5.0	28%		5.0	28%		
Sprocket Roller Path	10.0	56%		7.0	39%		8.5	47%		
Sprocket Drive Lug (Driven Flank)	30.0	75%		12.0	30%		21.0	53%		
Sprocket Drive Lug (Non-Driven Flank)	30.0	75%		15.0	38%		22.5	56%		

*Calculations based upon average wear rates and assumes the machines average travel ratio remains constant at 0.0%

Comments:

- Track shoes are Bradken units.
- There is visible pin bore wear on the tracks. Measurements indicated these are at 46% worn, although when properly tensioned this measurement is expected to be higher. This is the likely limiting factor of shoe life.
- Track shoe roller paths are in good condition at 44% worn.
- Track shoe drive lugs are in good condition at 28% worn.

- Left side sprocket roller paths are in reasonable condition at 56% worn.
- Left side sprocket drive lugs are in reasonable condition at 75% worn. These will be the limiting factor.

- Right side sprocket roller paths are in good condition at 39% worn.
- Right side sprocket drive lugs are in good condition at 38% worn. These are expected to match the life of the roller paths.

Track shoe limiting factor = Pitch

Drive sprocket limiting factor = Drive lugs

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- All idlers and rollers were inspected with a summary table provided below:

	Idlers	Top Rollers	Bottom Rollers
R	○	○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○
L	○	○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○

 	Serviceable, no leaks or accelerated wear
 	Showing signs of leakage or accelerated wear, monitor closely
 	Failed, requires replacement
 	Missing, requires replacement
P	Progress unit
O	OEM unit
A	Alternative aftermarket unit

Charts:



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Photos:



Left sprocket roller-path



Left sprocket drive lug (driven)



Right sprocket drive lug (driven)



Shoe roller-path



Shoe drive lug (driven)



Pin / bore condition



R1 top roller



L2 bottom roller



Right idler

Recommended Actions:

- L2 bottom roller, L8 bottom roller and left side idler are all potentially leaking and will need to be cleaned to verify.