

DISMANTLING NOW . Minespec Parts Pty Ltd HITACHI EX3600-5 BACKHOE







Ultra NDT Pty Ltd ABN ó 89 126 454 578 Ph - (07) 4934 7021 Mob - 0407 574 149 Email ó owen@ultrandt.com.au

REPORT NO: 15-070-01

CLIENT: Minespec Parts

IDENTIFICATION: EX3600 Unit No. EX214

EXAMINATION DATE: 25th March 2015

SUBJECT: The partial inspection of Hitachi Excavator EX3600 Unit No. EX214 as per the Hitachi visual inspection manual. The inspections were carried out to detect any possible cracking.

TECHNICIAN: Tom Holden

Report By:

Owen Kavanagh

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TECHNICAL DATA

	Ultrasonic	Magnetic Particle	Visual
Test Specification:	AS 2207 2004	AS1171 2004	AS3978 2003
Procedure No:	UT002	MT001	VI001
Test Method:	As Per Procedure	Sustained Magnetism	Visual
Surface condition:	As in service	Wire brushed clean	Painted
Equipment:	Sonatest SS250	Ardrox Magnet	Ruler, Camera
Serial No:	1001229	1306CK	
Probes:	MB4se . 50282 Orion 70 . 408/04		
Consumables:	Cellulose Paste		
Accuracy:	±2%		
Acceptance Standard:	Evaluate for cracking Hitachi Inspection Manual	Evaluate for Cracking	Evaluate for Cracking

Test Restrictions: Components inspected in service and as built restricts access to areas Dirt, grease, oil and paint may mask crack indications

RESULTS:

AREAS INSPECTED

SIDE FRAMES

Cracking detected, Refer to the Side Frame drawing for details of the cracking

CARBODY

Cracking detected, Refer to the Carbody drawing for details of the cracking

MAIN FRAME

Cracking detected, Refer to the Main Frame drawing for details of the cracking

BOOM

Cracking was detected, Refer to the photograph numbers 1 . 5 for details of the cracking

NB. Limited access to the boom during the inspection due to excess grease and dirt build up.

STICK

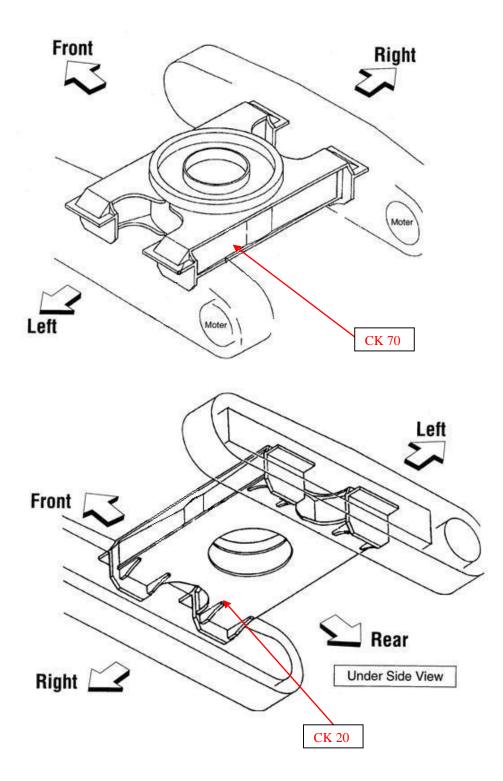
Very limited access to the Stick during the inspection due to time constraints and excess grease and dirt build up.

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RESULTS OF INSPECTION – DRAWINGS

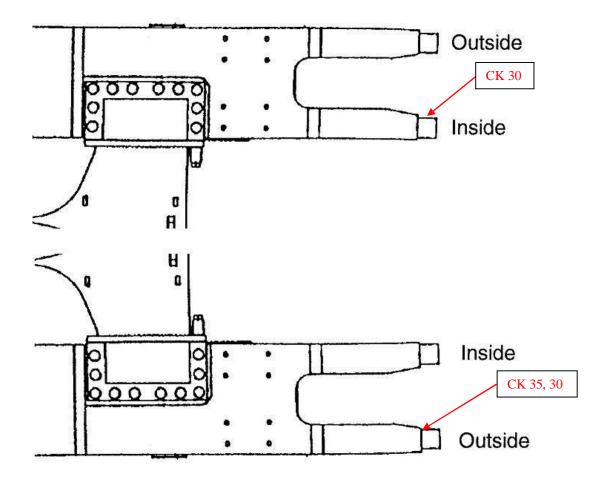
TRACK FRAME



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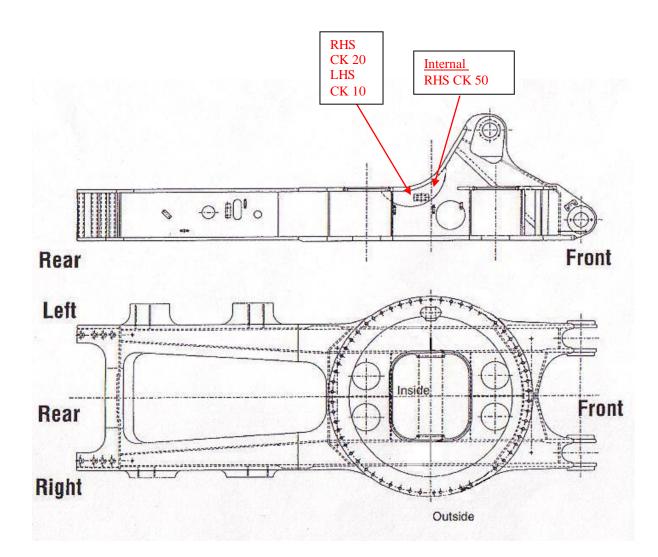
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RESULTS OF INSPECTION – PHOTOGRAPHS

Photograph No. 1

View of the excavator as inspected



Photograph No. 2 View of the cracking detected in the Boom



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Photograph No. 3

Close up view of the 125mm long crack detected in the Boom



Photograph No. 4 View of cracking detected in a hydrualic line mount



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Photograph No. 5

View of cracking detected in the Left hand side of the Boom



Photograph No. 6 View of the access restrictions on the Boom



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Photograph No. 7

View of the access restrictions on the Boom



Photograph No. 8 View of the access restrictions on the Stick



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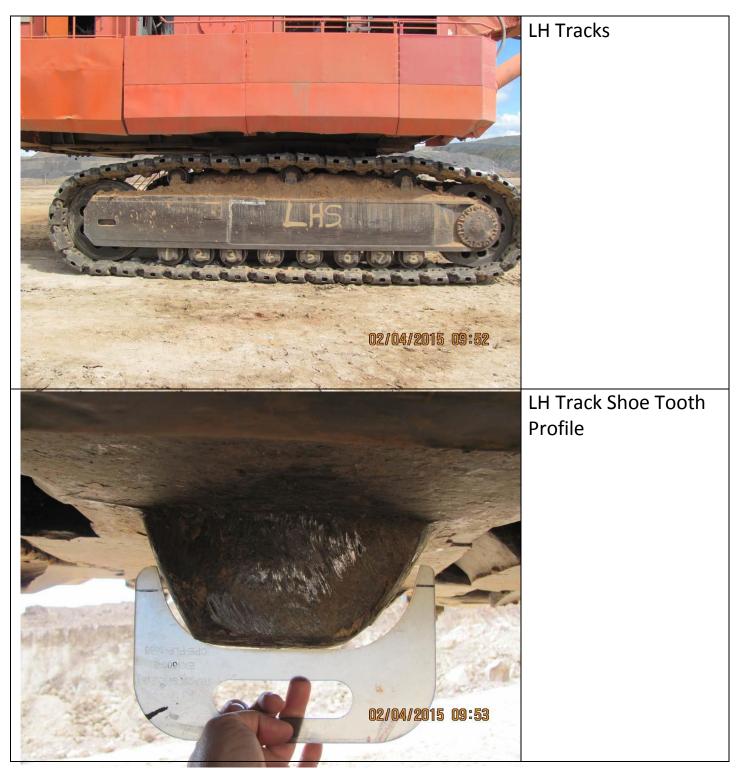


HITACHI EX3600-5 TRACK ASSESSMENT MINESPEC PARTS PTY LTD



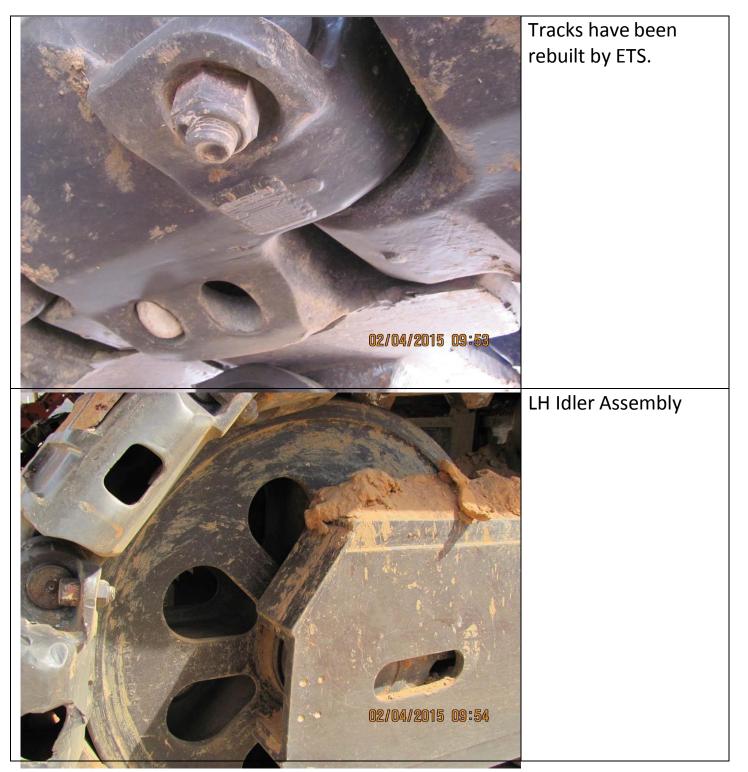














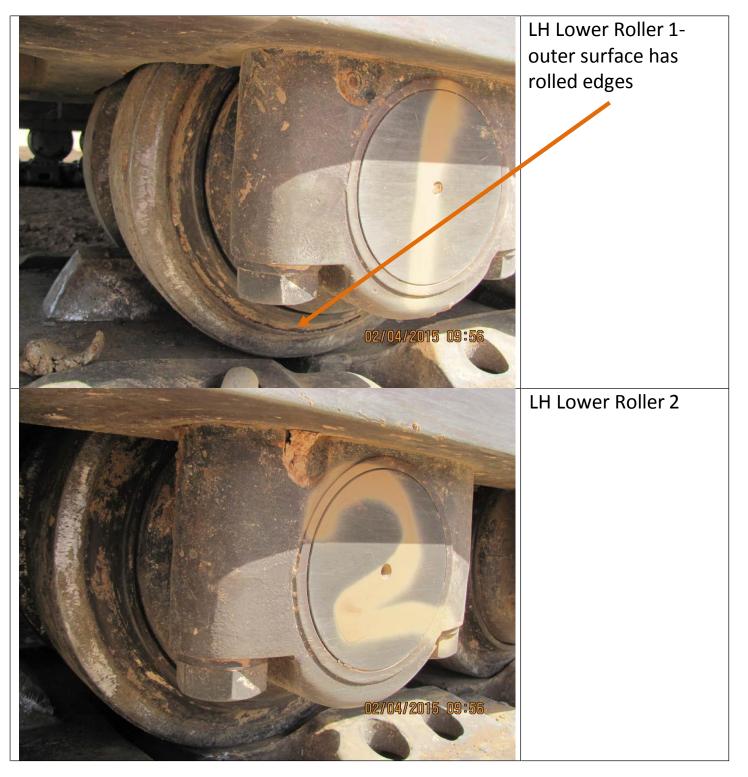


LH Aftermarket Drive Tumbler. Teeth are oversized and cannot be measured accurately as the gauge does not fit correctly on the tooth.



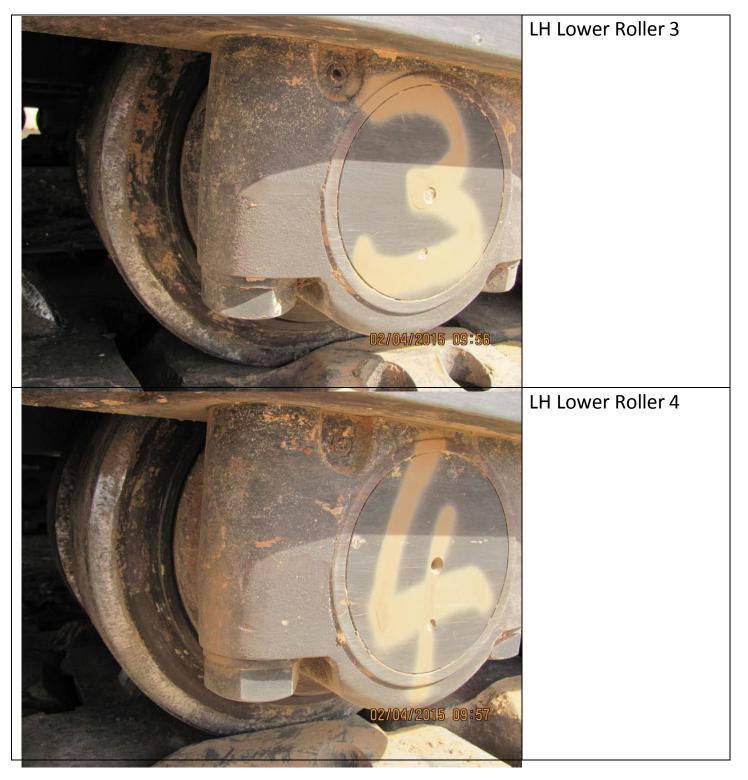






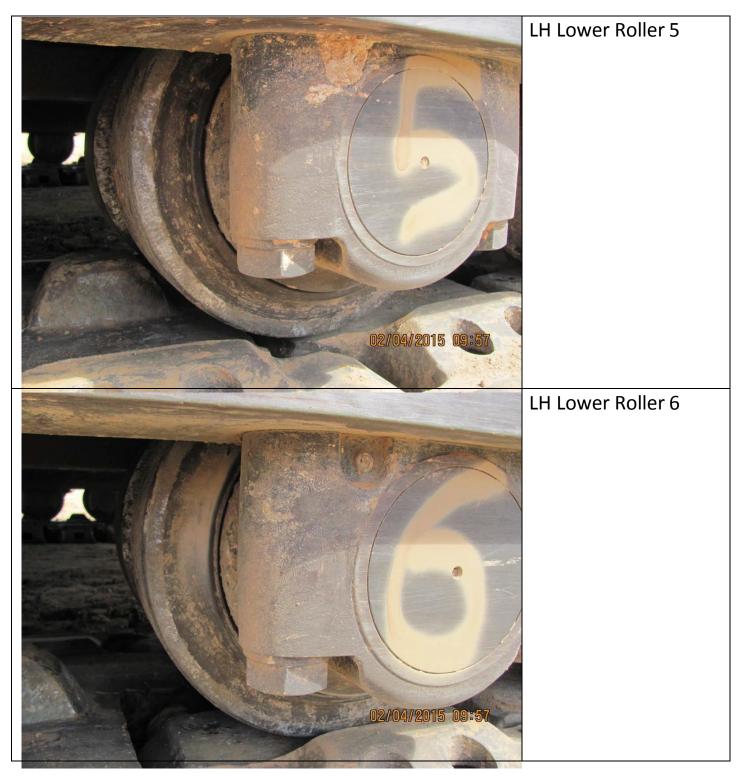






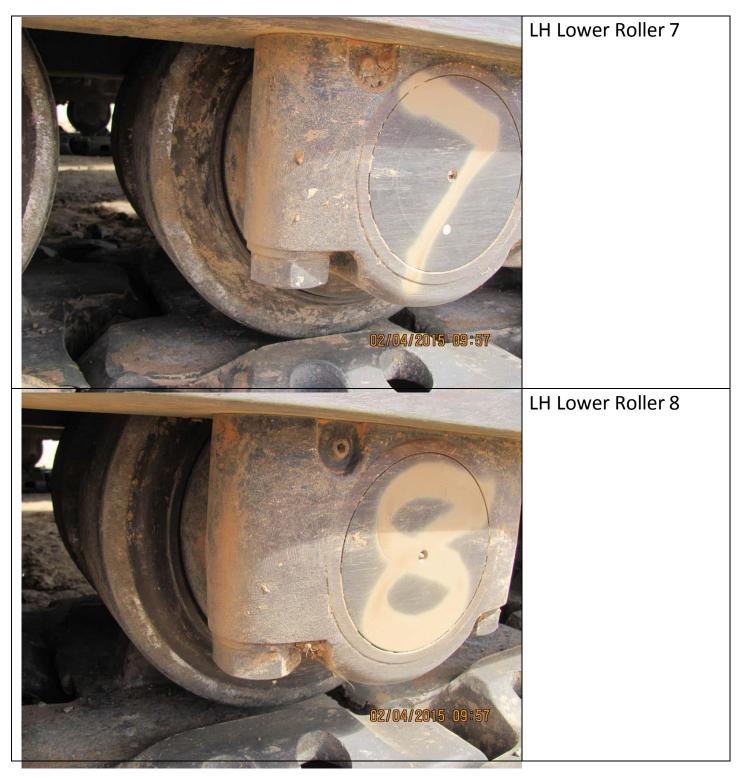












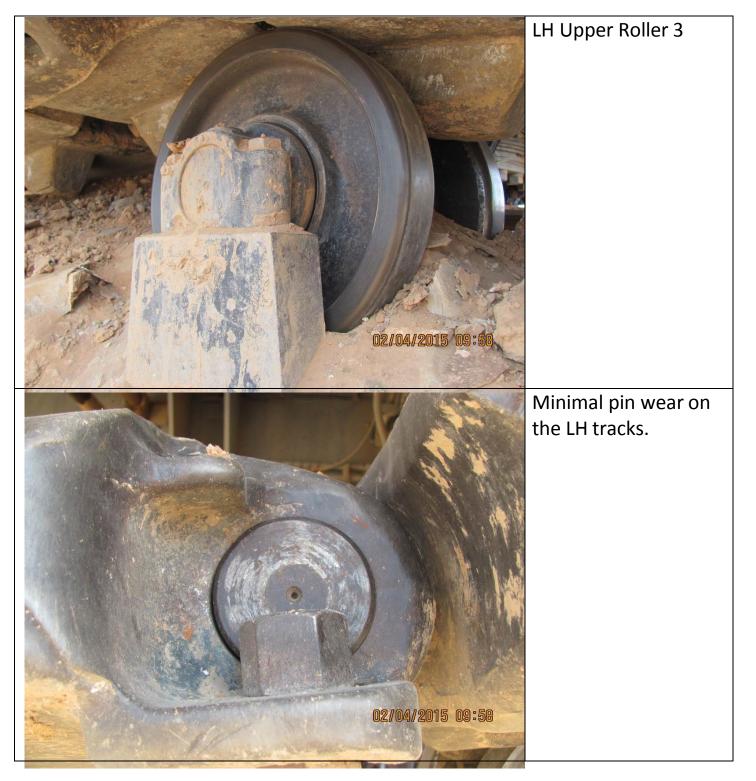






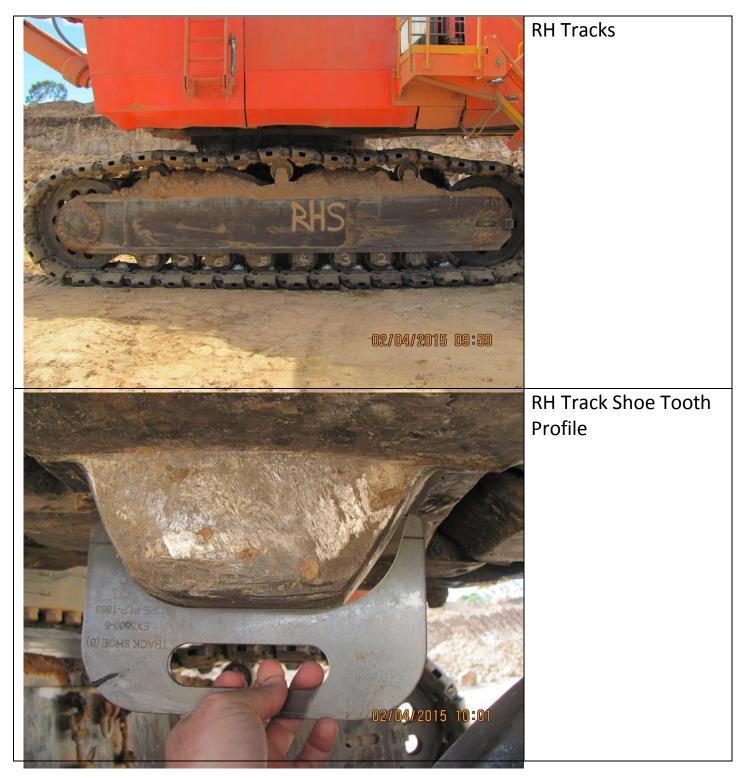












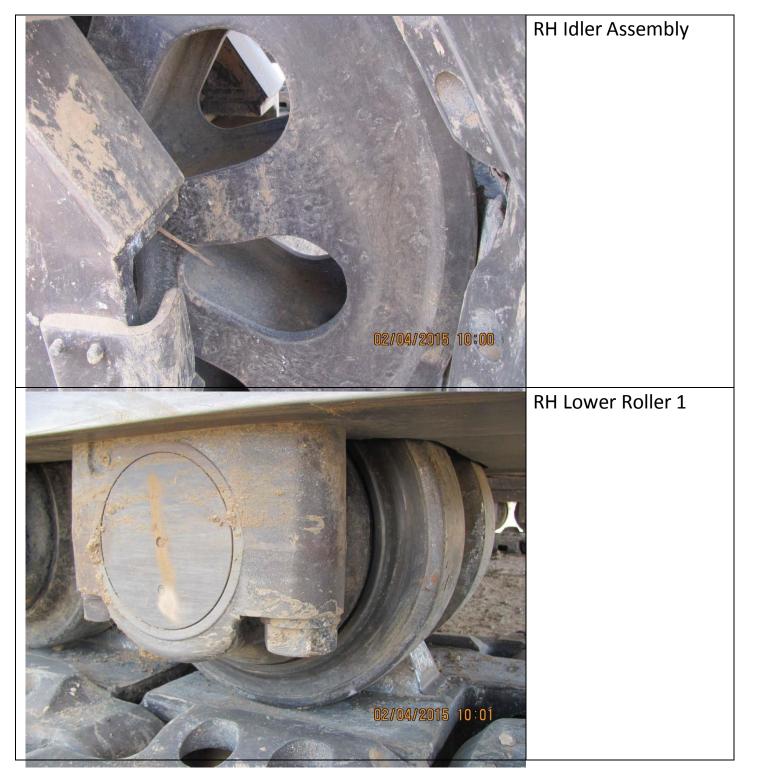






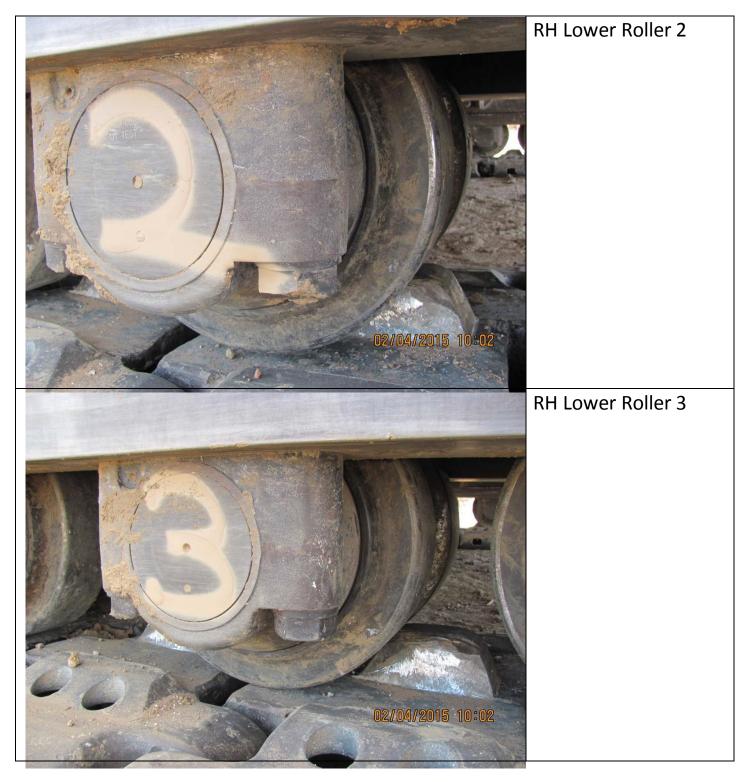






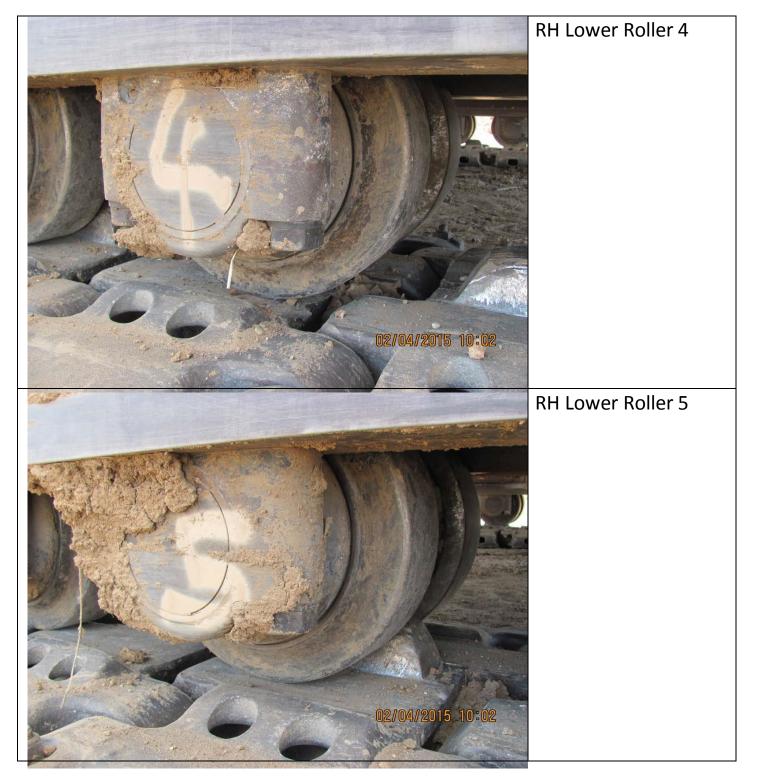






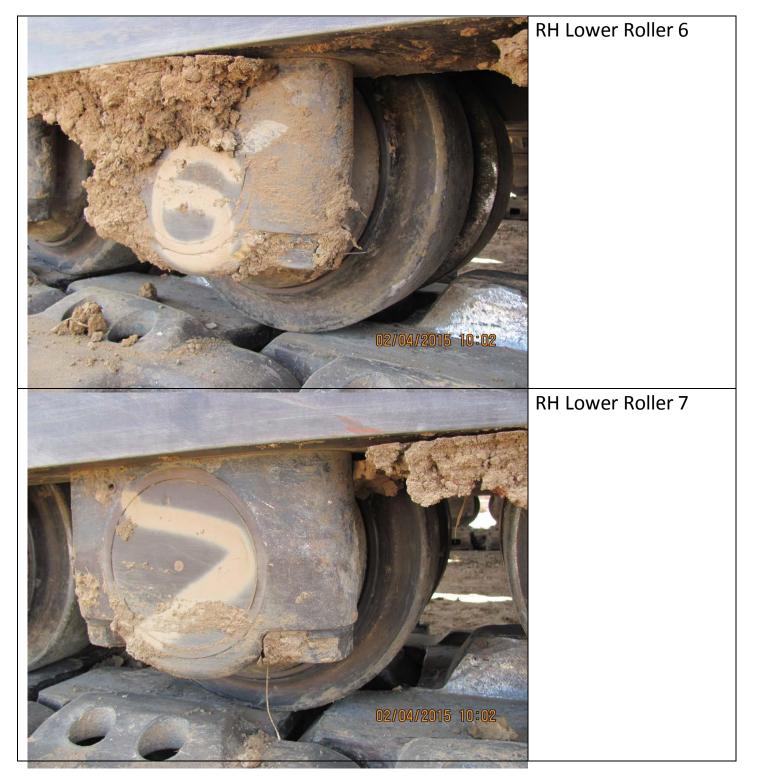












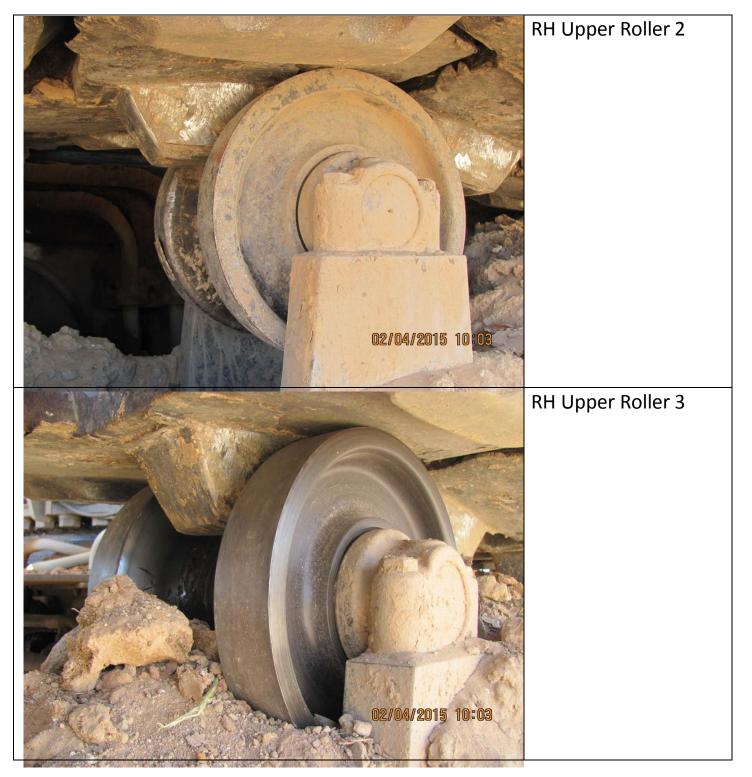






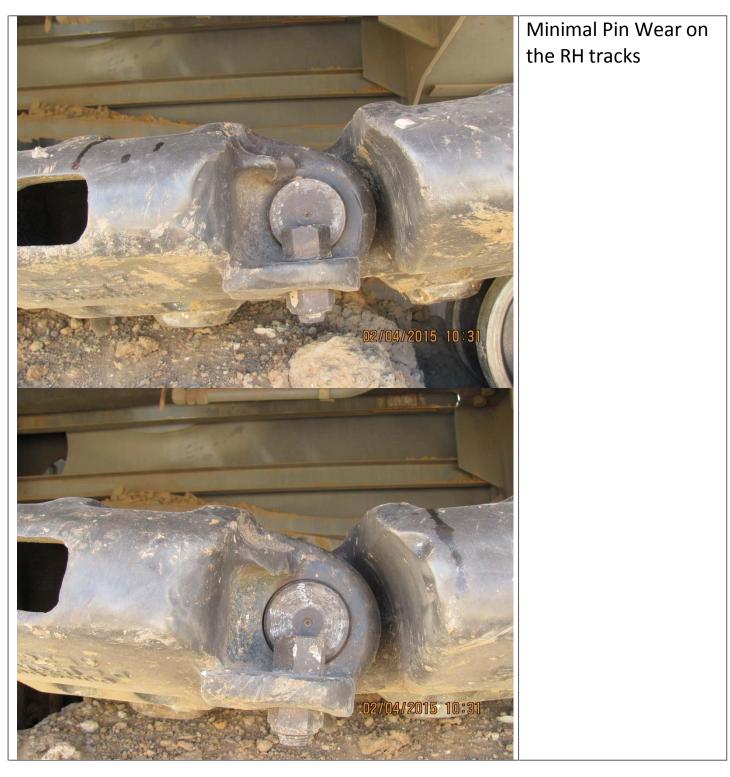


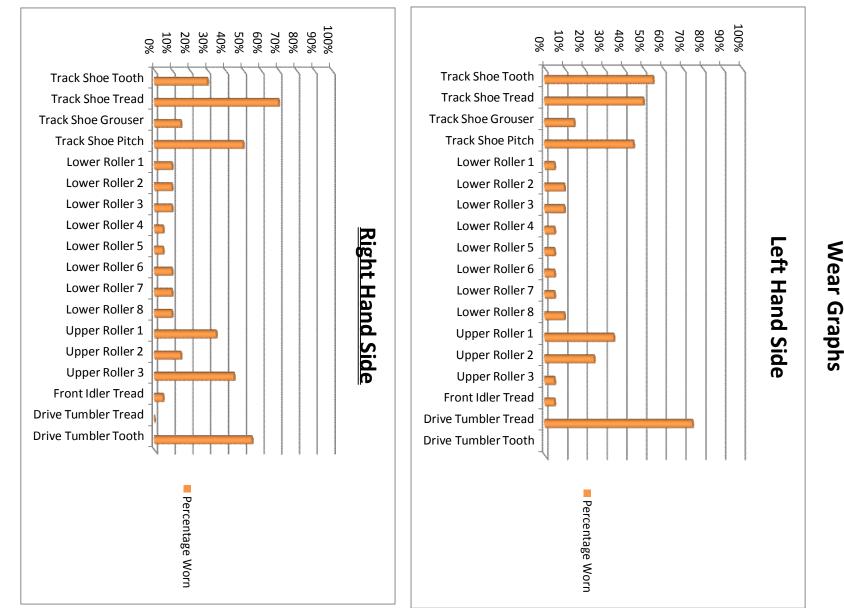












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Undercarriage Appraisal Report {Shovel Type Undercarriage)

Details				
Customer Name	Minespec Parts Pty Ltd			
Customer Address	Braeside Road, Nebo QLD 4742			
Machine Model	EX3600-5			
Serial Number	*157	Front Alt Backhoe		Shoe widthmm
Jobsite Mine	Blackwater	Work digging		Handling Shot Material

Report		Pre Dimensi	Hnt onsmm	Percent	Worn %	Hours I Pa	low on rts	Potentia Part	al Hrs of Life
		Lert	Right	Left	Right	Left	Right	Left	Right
Track Shoe Tooth Length	1			55%	30%				
	•								
<u>></u> _									
Track Shoe Tread				50%	70%				
	1								
2t=s-[
Tr <u>ac</u> k Shoe Grouser Heig	ght			15%	15%				
4									
1									
Track Shoe Pitch	_			45 %	50%				
Contraction of the second									
ion on of the									
Lower Roller Tread Dia.	-1-1	1		1-5%-1	1 <u>0%</u> -+				-1
	2			10%	10%				
1 1	3			10%	10%				
	4			5%	5%				
	5			5%	5%				
Contraction of the second seco	6			5%	10%				
A A A A A A A A A A A A A A A A A A A	7			5%	10%				
	8			10%	10%				
Upper Roller Tread Dia.				35%	35%				
	2			25%	15%				
2015	4			5%	45%				
	5								
SINCE	6								
Front Idler Tread Diamete	er			5%	5%				
				0 /0	0 /0				
The second									
The start									
Drive Tumbler Diameter				75%	0%				
850									
1 - K									
No!									
Drive Tumbler Tooth			N/A	55%					
			17/7	0070					
A Ala	_								
Track Adjustment		LH	mm	RH	mm	Se	e Operato	or's Man	ual



Hitachi Construction Machinery (Australia) Pty Ltd

Inspection Details			
Date of Inspection	02/04/2015		
Dealer Name	HCA- Emerald		
Inspected by	A Richards		
Current HR Meter Reading	43,768 Hours		
Date Previously Inspected	10/09/2013		
HR Meter Reading Previous Inspection	40,378 Hours		
Shoe			
Shoe			
D Breakage	DCrack		

DPinHoleWear Comments

Tracks have been rebuilt by ETS.

Lower Roller		
Turning History	181 Never	O Tumed @Hr
Oil Leak	181 No	D Yes
Comments		

Upper Roller			
Flat Spot	181 No	D Yes	
Oil Leak	181 No	O Yes	
Comments			
Front Idler			
Oil Leak	O No	O Yes	
Comments			
Drive Tumbler			
Mud Pack	181 No	D Yes	
Comments RH aftermarket tumbler is too narrow. LH aftermarket Tumbler teeth are oversized and cannot be accurately measured			