OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

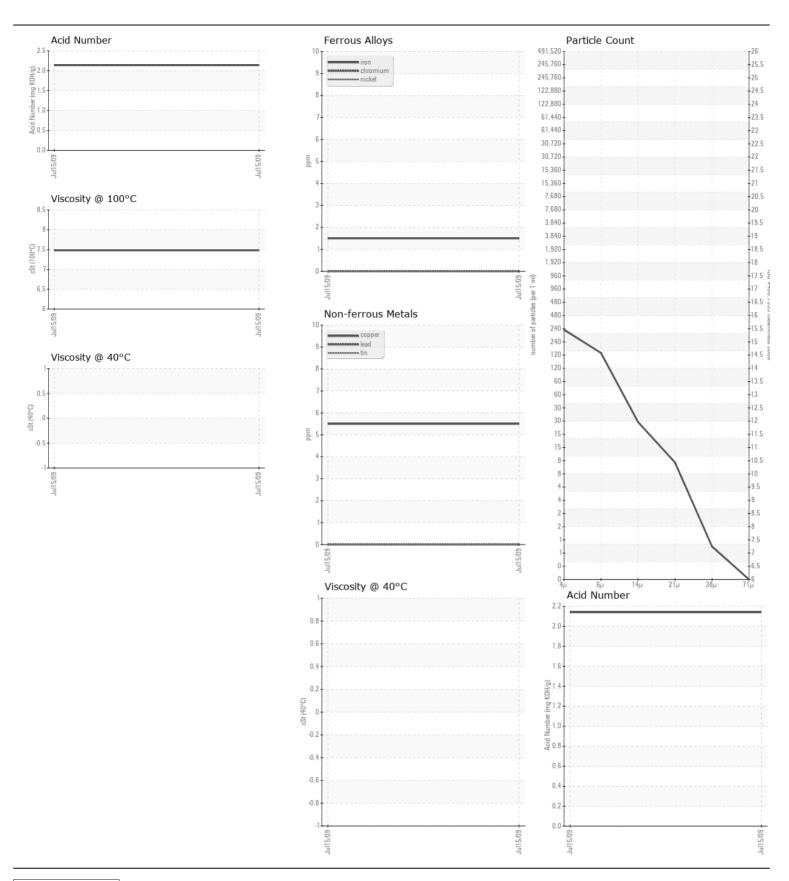
Machine Id

CATERPILLAR 0140HP0CA03673

Hydraulic System

TRC HYDRAULIC OIL ISO 32- SAE10W (--- GAL)

Test	UOM	Method	I imit/Ahn	Current	History1	History2
	COIVI		LIIIII/AVII			
Sample Date		Client Info		15 Jul 2009		
Machine Age	hrs	Client Info		2241		
Oil Age	hrs	Client Info		245		
Filter Age	hrs	Client Info		245		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				NORMAL		
Iron	nnm	ACTM DE10Em		<u> </u>		
				-		
				-		
		ASTM D5185m		6		
Tin		ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
	ppm			-		
•						
				-		
	scalar	. ,	NONE			
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual		NEG		
	ppm					
	ppm					
•						
-						
•						
				6264		
Sulfur	[][][]					
Sulfur Acid Number (AN)	ppm mg KOH/g	ASTM D5185m ASTM D8045		2.14		
	Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Particles >4µm Particles >6µm Particles >38µm Particles >71µm Oil Cleanliness Silt Debris Sand/Dirt Appearance Odor	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Particles >4µm Particles >6µm Particles >14µm Particles >71µm Oil Cleanliness Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Barium ppm Manganese ppm Magnesium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus	Sample Number Sample Date Machine Age Oil Age hrs Client Info Clie	Sample Number Sample Date Client Info Machine Age Oil Age hrs Client Info Oil Age hrs Client Info Oil Clanged Filter Age Oil Changed Filter Changed Sample Status Iron Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Nickel ppm ASTM D5185m Nickel ppm ASTM D5185m Nickel ppm ASTM D5185m Natm D5185m Natm D5185m Aluminum ppm ASTM D5185m Lead ppm ASTM D5185m Lead ppm ASTM D5185m Vanadium ppm ASTM D5185m Vone Visual NONE Silicon Particles >4µm Particles >6µm ASTM D7647 Particles >21µm ASTM D7647 Particles >38µm Particles >71µm ASTM D7647 Particles >38µm Particles >38µm Particles >38µm Particles >38µm ASTM D7647 Particles >21µm ASTM D7647 Particles >38µm ASTM D7647 Particles >6000 P	Sample Number Client Info TR02521453 Sample Date Client Info 15 Jul 2009 Machine Age hrs Client Info 2241 Oil Age hrs Client Info 245 Filter Age Client Info Not Changd Filter Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status Northology Northology Iron ppm ASTM D5185m 0 Chromium ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Valual NONE NONE Yellow Metal scalar	Sample Number Client Info TR02521453 Sample Date Client Info 15 Jul 2009 Sample Date Client Info 2241 Sample Date Client Info 2245 Sample Date Client Info 245 Sample Status Sample Status North Changd Sample Status Sampl





Certificate L2367

Laboratory Sample No.

Lab Number : 02521453 Unique Number : 5021354

: TR02521453

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 17 Nov 2009 : 19 Nov 2009

: 19 Nov 2009 - Jonathan Hester

UNION COUNTY ROAD DEPT. P.O. BOX 430 CLAYTON, NM US 88415

Contact: ELOY GONZALES

Test Package : MOB 2 (Additional Tests: KV100) To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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