**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

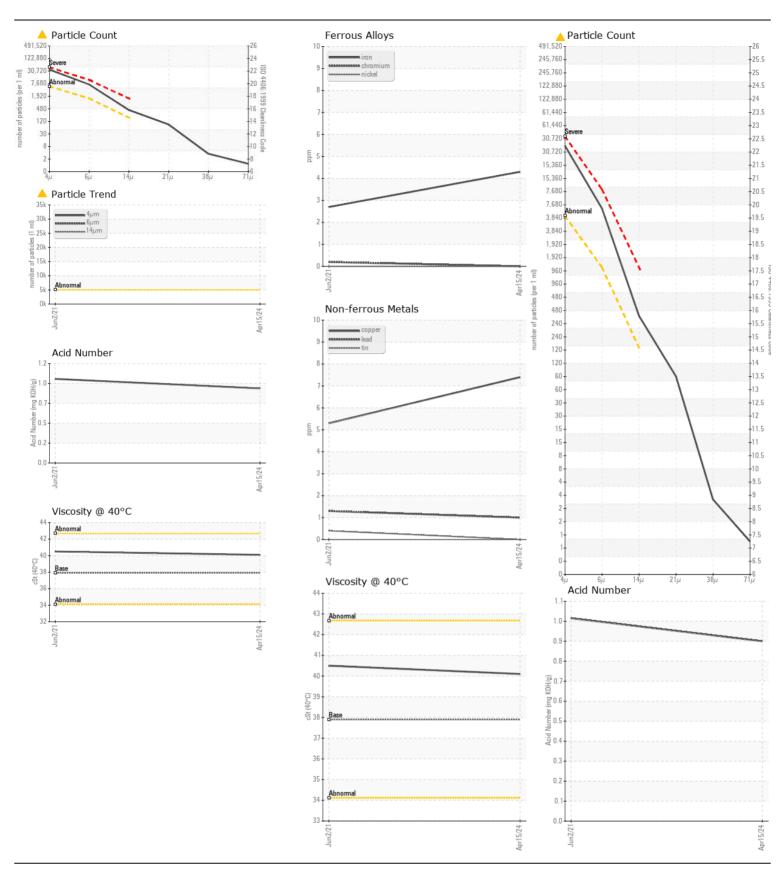
Machine Id

## CZM DVT 4 4850015 Component Hydraulic System

CAT HYDO (62 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEO MINIETE ATION	Sample Number		Client Info		WC0919232	WCMC153574	
We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Date		Client Info		15 Apr 2024	02 Jun 2021	
	Machine Age	hrs	Client Info		3875	1017	
	Oil Age	hrs	Client Info		0	1017	
	Filter Age	hrs	Client Info		0	1017	
	Oil Changed		Client Info		N/A	Not Changd	
	Filter Changed		Client Info		N/A	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	<b>√2</b> 0	4	3	
	Chromium	ppm	ASTM D5185m		0	<1	
All component wear rates are normal.	Nickel		ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	>10	0	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	×10		<1	
	Lead	ppm	ASTM D5185m		<1 1	1	
	Copper	ppm ppm	ASTM D5185m		7	5	
	Tin		ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>10	<1	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal		*Visual	NONE	NONE	NONE	
		scalar	VISUAI	NONE	INOINE	INOINE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	3	
CONTAININATION	Potassium	ppm	ASTM D5185m		12	<1	
There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.	Water	le le · · ·	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		<u> </u>		
	Particles >6µm		ASTM D7647		▲ 6086		
	Particles >14µm		ASTM D7647		△ 366		
	Particles >21µm		ASTM D7647		<u></u> 75		
	Particles >38μm		ASTM D7647		3		
	Particles >71μm		ASTM D7647		1		
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 22/20/16		
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		3	<1	
	Boron	ppm ppm	ASTM D5185m		0	7	
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		4	8	
	Calcium		ASTM D5185m		1751	2524	
	Phosphorus	ppm	ASTM D5185m	1100	653	781	
	Zinc	ppm	ASTM D5185m		753	999	
	Sulfur	ppm ppm	ASTM D5185m	1210	753 2458	2630	
	Acid Number (AN)	mg KOH/g	ASTM D3163111 ASTM D8045		0.90	1.015	
	. ,			27.0			
	Visc @ 40°C	cSt	ASTM D445	37.9	40.1	40.5	

Contact/Location: BRENT SHIRLEY - HAYCOL





Certificate L2367

Laboratory Sample No.

: WC0919232 Lab Number : 06151917 Unique Number: 10981995 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

: 19 Apr 2024 - Don Baldridge Diagnosed

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

**KELLER-NA - KERNERSVILLE** 1024 EAST MOUNTAIN ST

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Contact/Location: BRENT SHIRLEY - HAYCOL