

WEAR NORMAL CONTAMINATION ATTENTION FLUID CONDITION NORMAL

FLUID CONDITION

## Machine Id CATERPILLAR 963K TL3631 (S/N 0LBL00127) Component Hydraulic System Fluid CAT TDTO 10W (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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All component wear rates are normal.

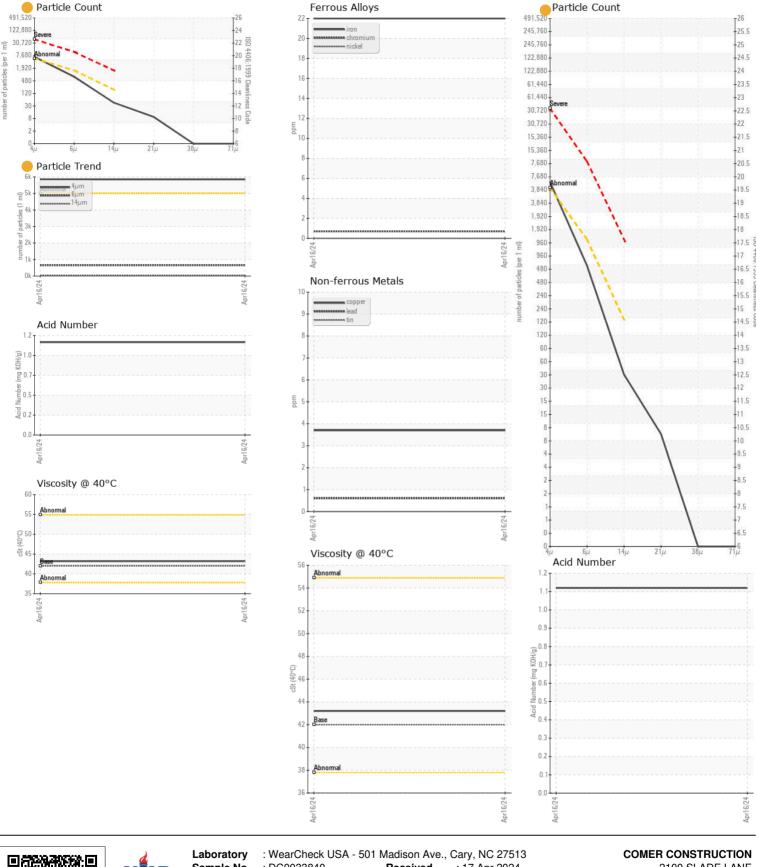
## CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2	
Sample Number		Client Info		DC0033840			
Sample Date		Client Info		16 Apr 2024			
Machine Age	hrs	Client Info		2543			
Oil Age	hrs	Client Info		500			
Filter Age	hrs	Client Info		0			
Oil Changed	1110	Client Info		Not Changd			
Filter Changed		Client Info		Not Changd			
Sample Status				ATTENTION			
Iron	ppm	ASTM D5185m	>20	22			
Chromium	ppm	ASTM D5185m	>10	<1			
Nickel	ppm	ASTM D5185m	>10	0			
Titanium	ppm	ASTM D5185m		0			
Silver	ppm	ASTM D5185m		0			
Aluminum	ppm	ASTM D5185m	>10	1			
Lead	ppm	ASTM D5185m	>10	<1			
Copper	ppm	ASTM D5185m	>75	4			
Tin	ppm	ASTM D5185m	>10	0			
Vanadium	ppm	ASTM D5185m		0			
White Metal	scalar	*Visual	NONE	NONE			
Yellow Metal	scalar	*Visual	NONE	NONE			
Silicon	ppm	ASTM D5185m	>20	3			
Potassium	ppm	ASTM D5185m	>20	12			
Water		WC Method	>0.1	NEG			
Particles >4µm		ASTM D7647	>5000	<b>6</b> 5850			
Particles >6µm		ASTM D7647	>1300	655			
Particles >14µm		ASTM D7647	>160	38			
Particles >21µm		ASTM D7647	>40	8			
Particles >38µm		ASTM D7647	>10	0			
Particles >71µm		ASTM D7647	>3	0			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	0/17/12			
Silt	scalar	*Visual	NONE	NONE			
Debris	scalar	*Visual	NONE	LIGHT			
Sand/Dirt	scalar	*Visual	NONE	NONE			
Appearance	scalar	*Visual	NORML	NORML			
Odor	scalar	*Visual	NORML	NORML			
Emulsified Water	scalar	*Visual	>0.1	NEG			
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Sodium	ppm	ASTM D5185m		5			
Boron	ppm	ASTM D5185m		3			
Barium	ppm	ASTM D5185m		0			
Molybdenum	ppm	ASTM D5185m					
Manganese	ppm	ASTM D5185m		<1			
Magnesium	ppm	ASTM D5185m	2020	15			
Calcium	ppm	ASTM D5185m	2980	341			
Phosphorus	ppm	ASTM D5185m	1100	605 727			
Zinc	ppm	ASTM D5185m	1270	737			
Sulfur	ppm	ASTM D5185m		1938			
Acid Number (AN)	mg KOH/g	ASTM D8045	40.0	1.12			
Visc @ 40°C	cSt	ASTM D445	42.0	43.2			



Sample No. Received 2100 SLADE LANE : DC0033840 : 17 Apr 2024 Lab Number : 06151933 : 18 Apr 2024 Tested FOREST HILL, MD Unique Number : 10982011 : 19 Apr 2024 - Don Baldridge US 21050 Diagnosed Test Package : MOB 2 Contact: DONALD FOX Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dfox@comerconstruction.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (443)269-1379 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)638-0289

Submitted By: DONALD FOX Page 2 of 2