

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

**ABNORMAL ABNORMAL NORMAL** 



## CATERPILLAR 924K RTL-13 (S/N PWR04554)

Component Transmission (Manual)

TDTO FLUID SAE 30 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info	2.111071011	CL0005262	CL0005009	CL0004021
	Sample Date		Client Info		13 Mar 2024	13 Dec 2023	13 Feb 2023
	Machine Age	hrs	Client Info		6024	5930	5470
	Oil Age	hrs	Client Info		6024	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>200	<u> </u>	62	62
The iron level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>7	0	<1	0
	Aluminum	ppm	ASTM D5185m	>25	6	4	1
	Lead	ppm	ASTM D5185m	>45	3	3	2
	Copper	ppm	ASTM D5185m	>225	2	4	<1
	Tin	ppm	ASTM D5185m	>10	<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>125	33	20	24
There is a light concentration of water present in the fluid.	Potassium	ppm	ASTM D5185m	>20	4	3	3
	Water	%	ASTM D6304	>0.1	<b>△</b> 0.169		
	ppm Water	ppm	ASTM D6304	>1000	<b>1690</b>		
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		10	10	7
The fluid is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	37	4	11	3
	Barium	ppm	ASTM D5185m	7	1	2	0
	Molybdenum	ppm	ASTM D5185m	5	3	<1	3
	Manganese	ppm	ASTM D5185m		5	2	1
	Magnesium	ppm	ASTM D5185m		30	32	31
	Calcium	ppm	ASTM D5185m		2652	2446	2908
	Phosphorus	ppm	ASTM D5185m		966	971	1012
	Zinc	ppm	ASTM D5185m		1115	1059	1166
	Sulfur	ppm	ASTM D5185m	5/50	8049	6873	6920

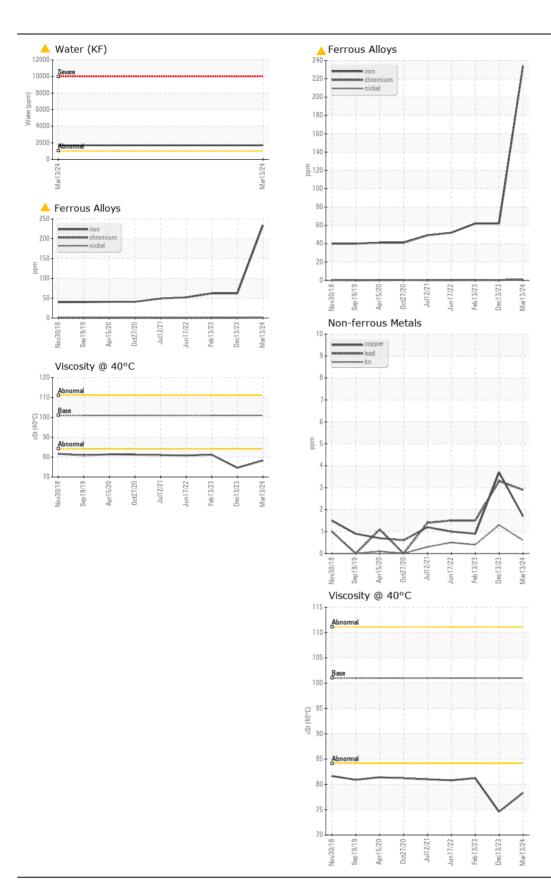
Visc @ 40°C

cSt

ASTM D445 101

78.3

81.2







Laboratory Sample No. Unique Number : 10936002

: CL0005262 Lab Number : 06121851

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

Received Tested Diagnosed

: 18 Mar 2024 : 21 Mar 2024

: 21 Mar 2024 - Angela Borella

146 MCLELLAND MOORESVILLE, NC US 28115

Contact: LARRY

Test Package : CONST ( Additional Tests: KF ) 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)

T: F:

**PEDULLA**