



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 924K RTL-13 (S/N PWR04554)
Component
Transmission (Manual)
Fluid
TDTO FLUID SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005009	CL0004021	CL0003291
Sample Date		Client Info		13 Dec 2023	13 Feb 2023	17 Jun 2022
Machine Age	hrs	Client Info		5930	5470	5045
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	62	62	52
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	1	2
Lead	ppm	ASTM D5185m	>45	3	2	2
Copper	ppm	ASTM D5185m	>225	4	<1	1
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

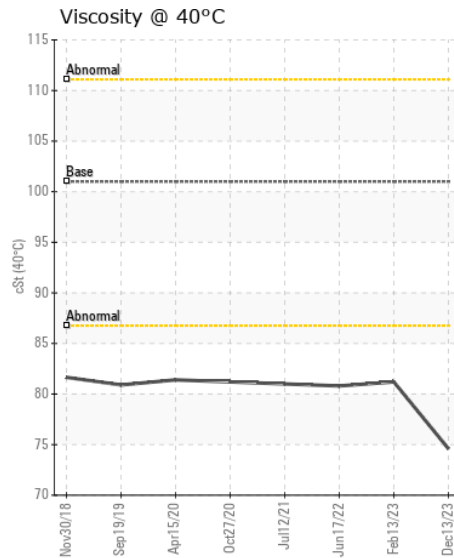
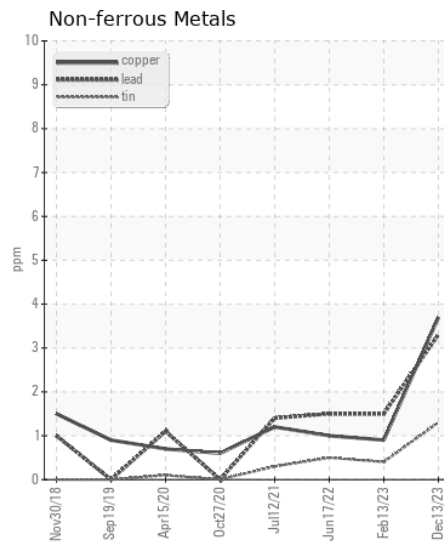
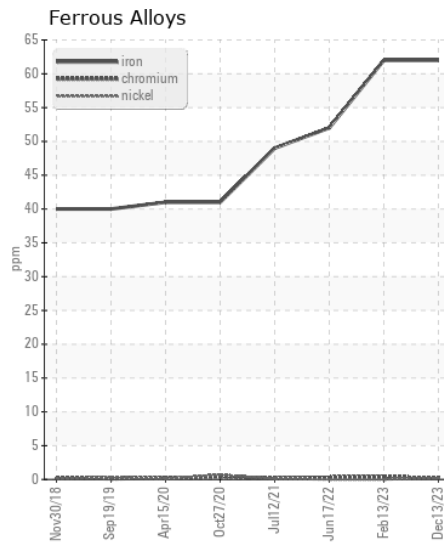
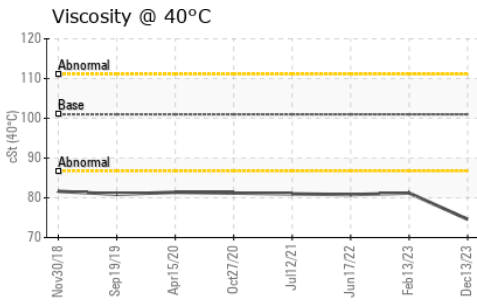
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>125	20	24	19
Potassium	ppm	ASTM D5185m	>20	3	3	2
Water		WC Method	>0.1	NEG	NEG	NEG
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	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		10	7	6
Boron	ppm	ASTM D5185m	37	11	3	7
Barium	ppm	ASTM D5185m	7	2	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	3	3
Manganese	ppm	ASTM D5185m		2	1	1
Magnesium	ppm	ASTM D5185m	40	32	31	30
Calcium	ppm	ASTM D5185m	2650	2446	2908	2804
Phosphorus	ppm	ASTM D5185m	1050	971	1012	991
Zinc	ppm	ASTM D5185m	1075	1059	1166	1149
Sulfur	ppm	ASTM D5185m	5750	6873	6920	7100
Visc @ 40°C	cSt	ASTM D445	101	74.6	81.2	80.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005009
Lab Number : 06041736
Unique Number : 10796965
Test Package : CONST
Received : 20 Dec 2023
Tested : 21 Dec 2023
Diagnosed : 22 Dec 2023 - Angela Borella

PEDULLA
 146 MCLELLAND
 MOORESVILLE, NC
 US 28115
 Contact: LARRY

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)

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F: