

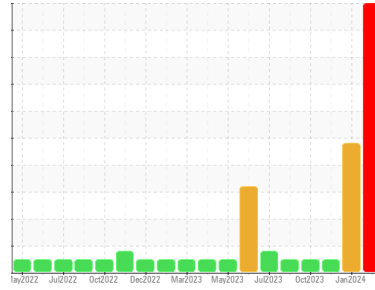


PROBLEM SUMMARY

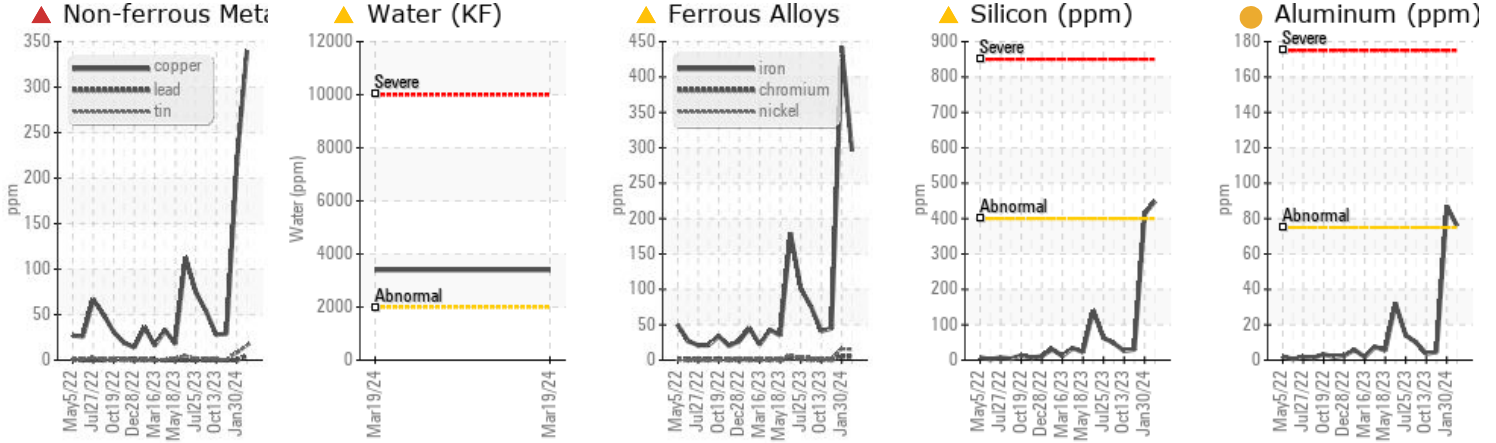


Machine Id
CATERPILLAR 374 8367 (S/N TMX00235)
 Component
Right Final Drive
 Fluid
{not provided} (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	NORMAL
Nickel	ppm	ASTM D5185m	>5	▲ 15	▲ 16	2
Copper	ppm	ASTM D5185m	>75	▲ 340	▲ 216	29
Tin	ppm	ASTM D5185m	>8	▲ 16	8	<1
Silicon	ppm	ASTM D5185m	>400	▲ 449	▲ 414	30
Water	%	ASTM D6304	>0.2	▲ 0.340	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3400	---	---

Customer Id: TRANEW
 Sample No.: WC0888113
 Lab Number: 06131177
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

30 Jan 2024 Diag: Don Baldrige

DIRT



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. An increase in the iron level is noted. Gear wear is indicated. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report



29 Nov 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



13 Oct 2023 Diag: Sean Felton

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



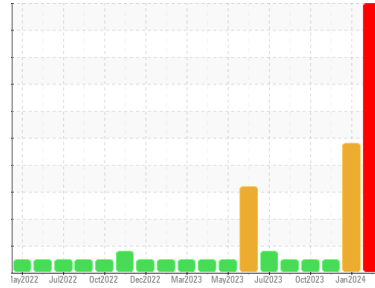


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR 374 8367 (S/N TMX00235)
 Component
Right Final Drive
 Fluid
{not provided} (--- GAL)

Sample Rating Trend



DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Bearing and/or bushing wear is indicated.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0888113	WC0888228	WC0879380
Sample Date	Client Info		19 Mar 2024	30 Jan 2024	29 Nov 2023
Machine Age	hrs	Client Info	10523	9765	8996
Oil Age	hrs	Client Info	752	769	487
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			SEVERE	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	296	442	45
Chromium	ppm	ASTM D5185m >10	5	5	<1
Nickel	ppm	ASTM D5185m >5	15	16	2
Titanium	ppm	ASTM D5185m >15	6	8	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >75	76	87	5
Lead	ppm	ASTM D5185m >10	4	0	0
Copper	ppm	ASTM D5185m >75	340	216	29
Tin	ppm	ASTM D5185m >8	16	8	<1
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	106	149	175
Barium	ppm	ASTM D5185m	0	<1	0
Molybdenum	ppm	ASTM D5185m	13	<1	0
Manganese	ppm	ASTM D5185m	4	5	<1
Magnesium	ppm	ASTM D5185m	86	7	0
Calcium	ppm	ASTM D5185m	1576	49	43
Phosphorus	ppm	ASTM D5185m	713	309	320
Zinc	ppm	ASTM D5185m	569	0	5
Sulfur	ppm	ASTM D5185m	3798	1837	1632

CONTAMINANTS

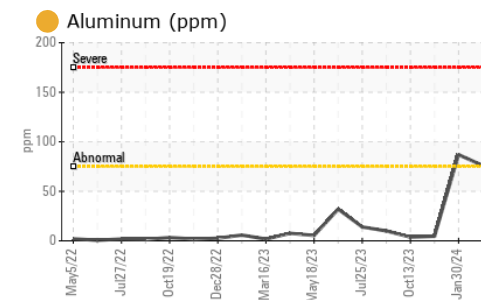
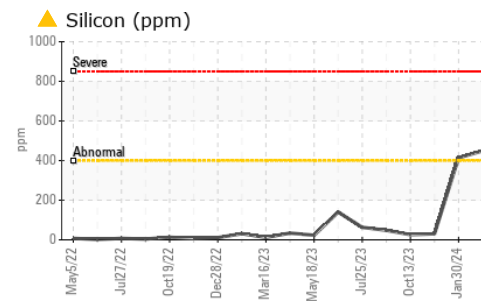
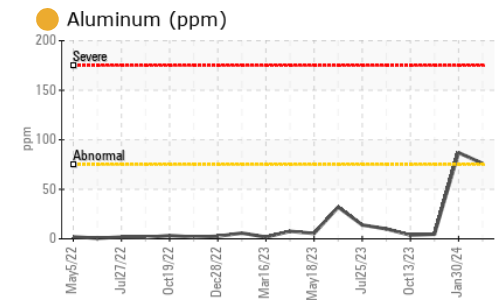
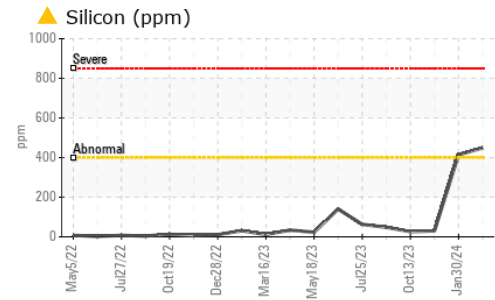
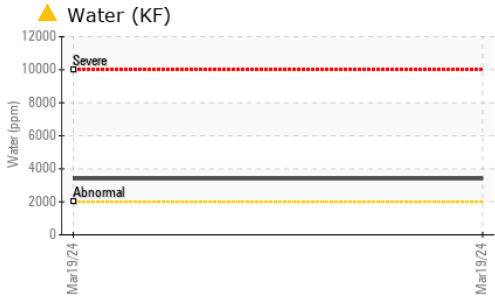
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	449	414	30
Sodium	ppm	ASTM D5185m	6	2	2
Potassium	ppm	ASTM D5185m >20	24	20	<1
Water	%	ASTM D6304 >0.2	0.340	---	---
ppm Water	ppm	ASTM D6304 >2000	3400	---	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
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 >0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG



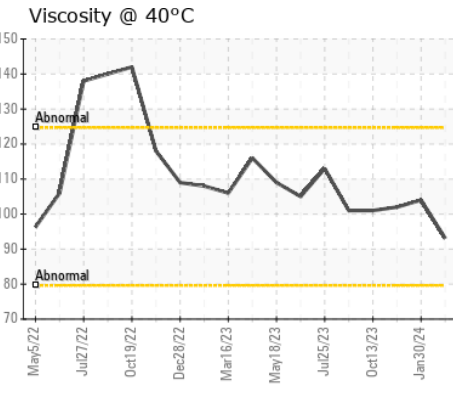
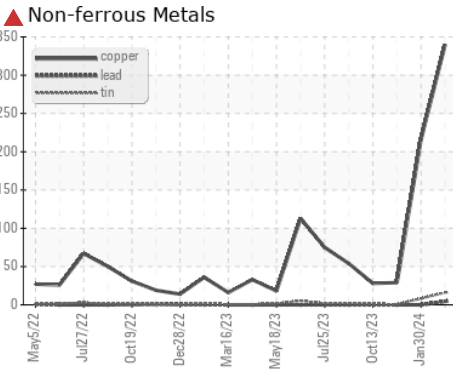
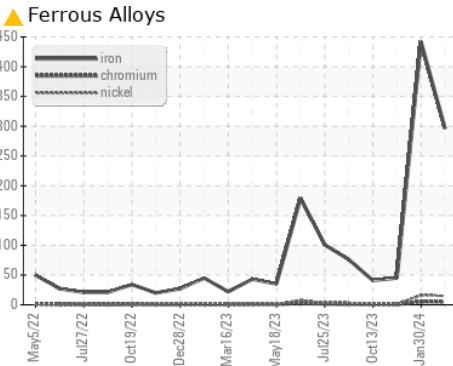
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		93.1	104	102

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0888113 **Received** : 27 Mar 2024
Lab Number : 06131177 **Tested** : 28 Mar 2024
Unique Number : 10950642 **Diagnosed** : 01 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

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Certificate L2367
 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)