



PROBLEM SUMMARY



Machine Id
CATERPILLAR 374-07 3830328
 Component
Hydraulic System
 Fluid
CAT TDTO 10W (--- GAL)

Sample Rating Trend

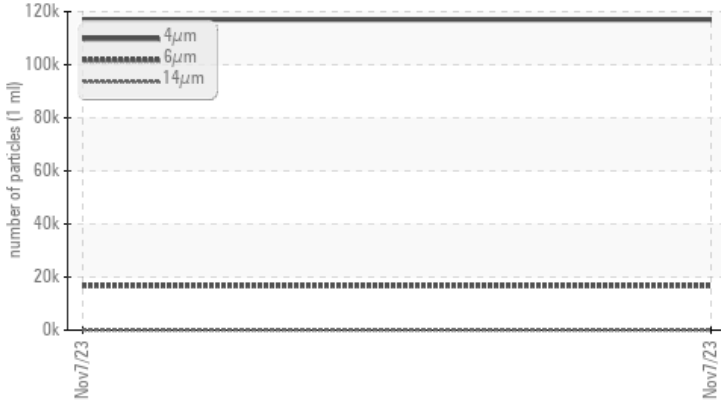


DIRT

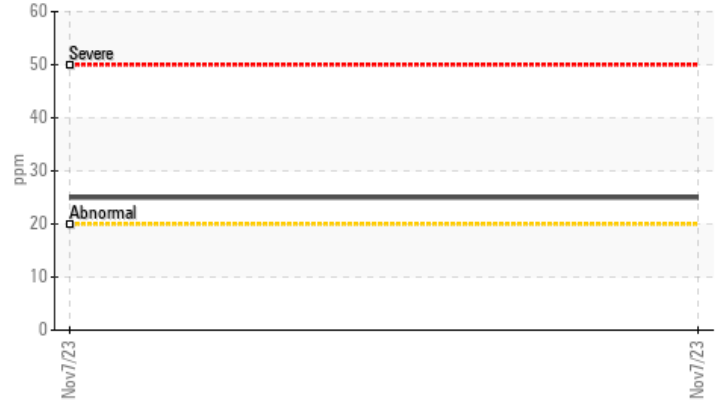


COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Silicon (ppm)



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL		---	---
Silicon	ppm	ASTM D5185m >20	▲ 25	---
Particles >6µm		ASTM D7647 >1300	▲ 16703	---
Oil Cleanliness		ISO 4406 (c) >--/17/14	▲ 24/21/14	---

Customer Id: HAYSAN
 Sample No.: WC0558194
 Lab Number: 06006972
 Test Package: MOBCE



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
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS



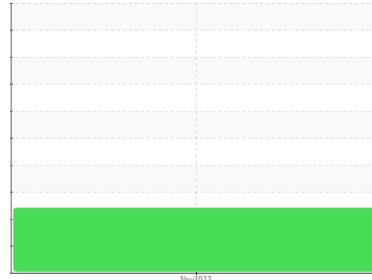
OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Machine Id
CATERPILLAR 374-07 3830328
 Component
Hydraulic System
 Fluid
CAT TDTO 10W (--- GAL)



DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0558194	---	---
Sample Date	Client Info		07 Nov 2023	---	---
Machine Age	hrs	Client Info	1212	---	---
Oil Age	hrs	Client Info	195	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	20	---	---
Chromium	ppm	ASTM D5185m >10	<1	---	---
Nickel	ppm	ASTM D5185m >10	<1	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >10	6	---	---
Lead	ppm	ASTM D5185m >10	<1	---	---
Copper	ppm	ASTM D5185m >75	8	---	---
Tin	ppm	ASTM D5185m >10	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	1	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	8	---	---
Calcium	ppm	ASTM D5185m 2980	209	---	---
Phosphorus	ppm	ASTM D5185m 1100	664	---	---
Zinc	ppm	ASTM D5185m 1270	867	---	---
Sulfur	ppm	ASTM D5185m	1828	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	▲ 25	---	---
Sodium	ppm	ASTM D5185m	3	---	---
Potassium	ppm	ASTM D5185m >20	2	---	---

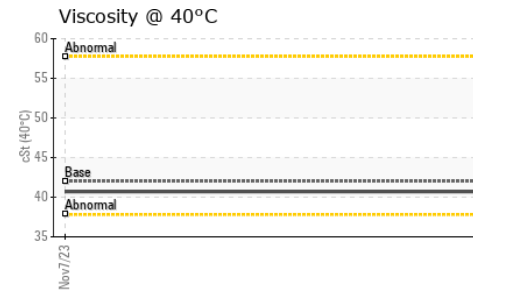
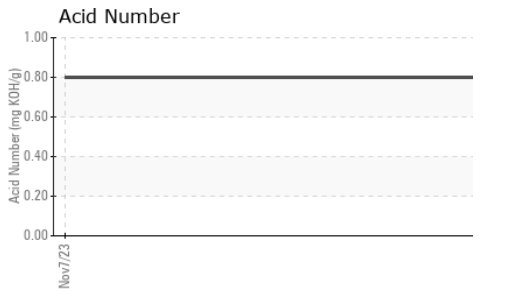
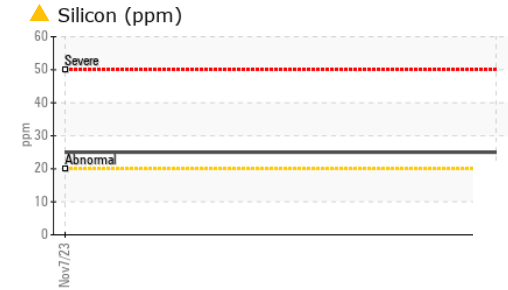
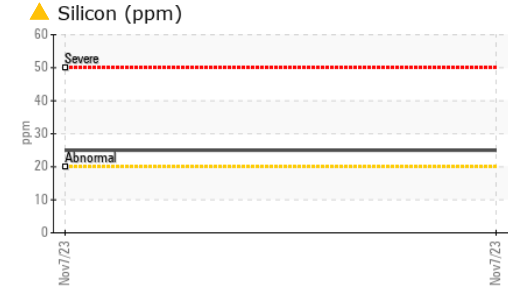
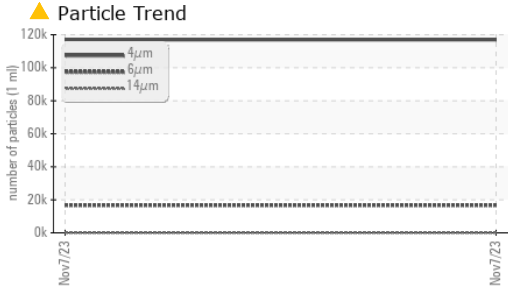
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		116957	---	---
Particles >6µm	ASTM D7647 >1300		▲ 16703	---	---
Particles >14µm	ASTM D7647 >160		90	---	---
Particles >21µm	ASTM D7647 >40		19	---	---
Particles >38µm	ASTM D7647 >10		1	---	---
Particles >71µm	ASTM D7647 >3		0	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/14		▲ 24/21/14	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.80	---	---

OIL ANALYSIS REPORT



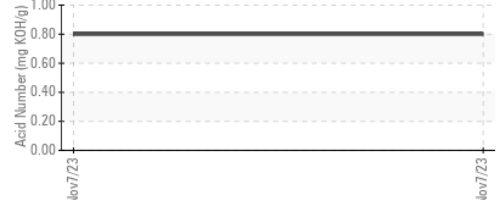
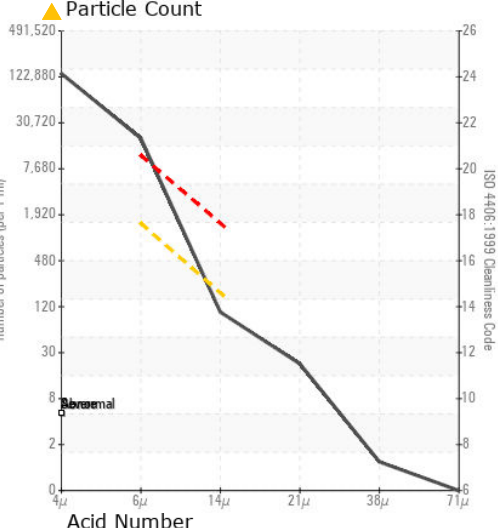
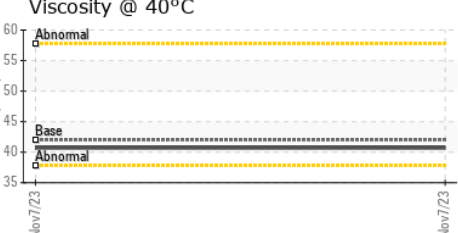
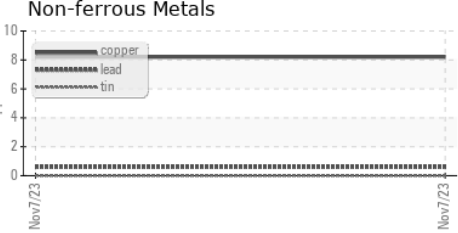
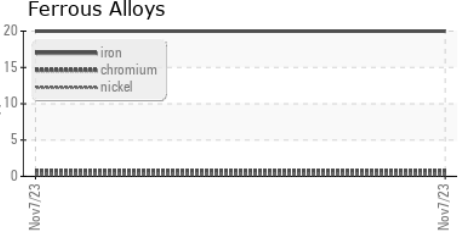
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	LIGHT	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	42.0	40.7	---

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0558194 **Received** : 14 Nov 2023
Lab Number : 06006972 **Diagnosed** : 16 Nov 2023
Unique Number : 10740734 **Diagnostician** : Don Baldrige
Test Package : MOBCE

HAYWARD BAKER INC - SANTA PAULA
 1780 LEMONWOOD DR
 SANTA PAULA, CA
 US 93060-9510
 Contact: LLOYD MANES
 ldmanes@keller-na.com
 T: (805)933-1331
 F: (805)933-1338

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)