

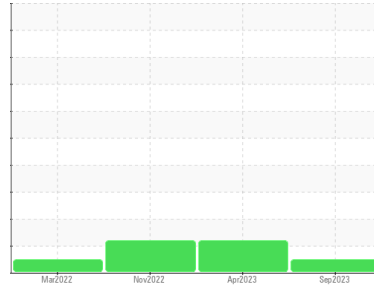


OIL ANALYSIS REPORT



Area
GUAY SON [CONHER]
 Machine Id
CATERPILLAR CHUYITO XXVIII - IBACO
 Component
Transmission (Manual)
 Fluid
RALOY SAE 50 (60 LTR)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the fluid.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0012877	KL0011398	KL0011272
Sample Date	Client Info		21 Sep 2023	06 Apr 2023	22 Nov 2022
Machine Age	hrs	Client Info	14980	14970	13719
Oil Age	hrs	Client Info	10	399	649
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	0	4	2
Chromium	ppm	ASTM D5185m >5	0	0	<1
Nickel	ppm	ASTM D5185m >5	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >7	0	0	0
Aluminum	ppm	ASTM D5185m >25	<1	<1	1
Lead	ppm	ASTM D5185m >45	0	0	<1
Copper	ppm	ASTM D5185m >225	5	5	12
Tin	ppm	ASTM D5185m >10	0	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	8	10
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	2
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	14	19	14
Calcium	ppm	ASTM D5185m	3548	3605	3077
Phosphorus	ppm	ASTM D5185m	1011	983	930
Zinc	ppm	ASTM D5185m	887	896	857
Sulfur	ppm	ASTM D5185m	6704	5852	4846

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	14	14	7
Sodium	ppm	ASTM D5185m	<1	<1	1
Potassium	ppm	ASTM D5185m >20	0	0	0

FLUID CLEANLINESS

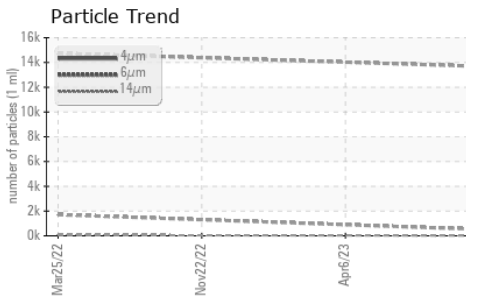
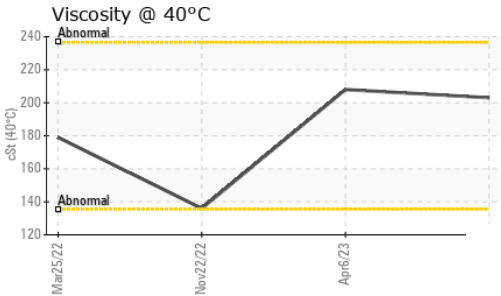
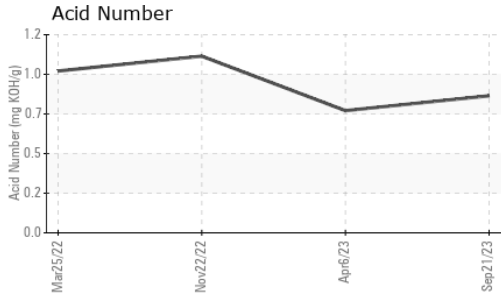
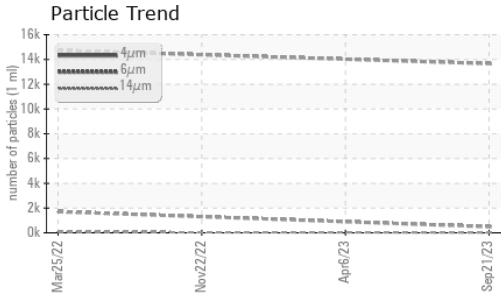
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		13665	---	---
Particles >6µm	ASTM D7647	>2500	493	---	---
Particles >14µm	ASTM D7647	>320	16	---	---
Particles >21µm	ASTM D7647	>80	4	---	---
Particles >38µm	ASTM D7647	>20	0	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/15	16/11	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.83	0.74	1.07



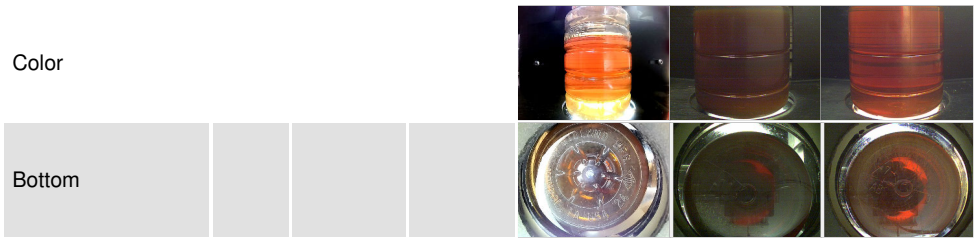
OIL ANALYSIS REPORT



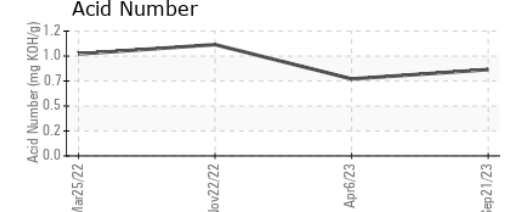
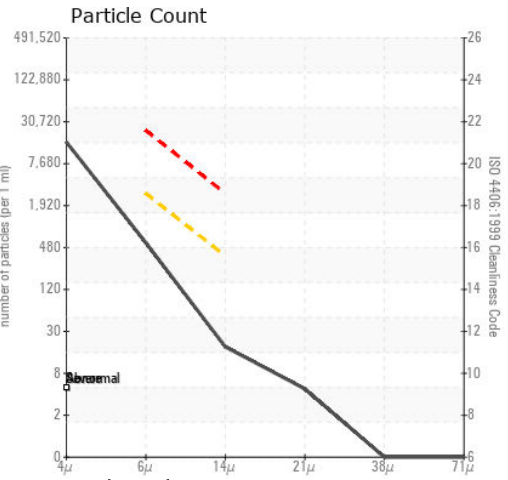
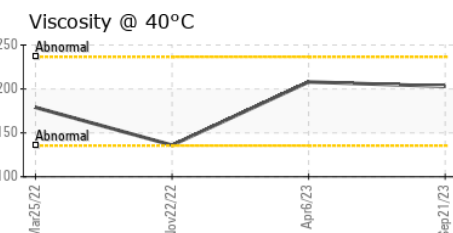
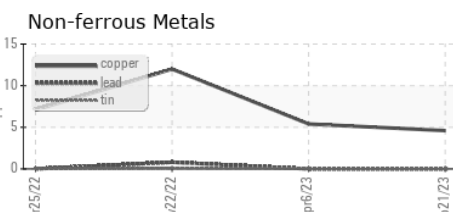
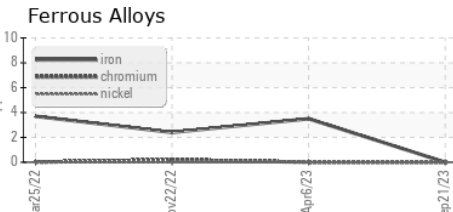
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	▲ MODER ▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE NONE
Silt	scalar	*Visual	NONE	NONE	NONE NONE
Debris	scalar	*Visual	NONE	NONE	NONE NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	203	208	136

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012877 **Received** : 29 Sep 2023
Lab Number : 05964560 **Diagnosed** : 02 Oct 2023
Unique Number : 10671111 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: PrtCount)

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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