



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
GUAY SON [CONHER]
Machine Id
CATERPILLAR NAUTICO 5
Component
Transmission (Manual)
Fluid
RALYO SAE 50 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013488	KL0012826	KL0009171
Sample Date		Client Info		20 Jan 2024	15 Sep 2023	23 Mar 2022
Machine Age	hrs	Client Info		0	13758	1000
Oil Age	hrs	Client Info		304	20	1000
Filter Age	hrs	Client Info		304	20	1000
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	27	16	4
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>7	0	0	1
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>45	2	4	2
Copper	ppm	ASTM D5185m	>225	7	8	8
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

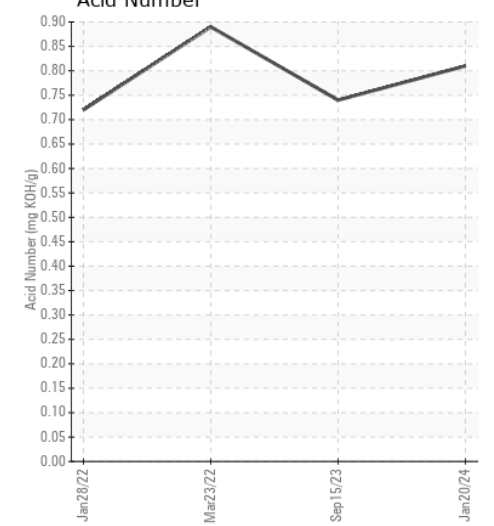
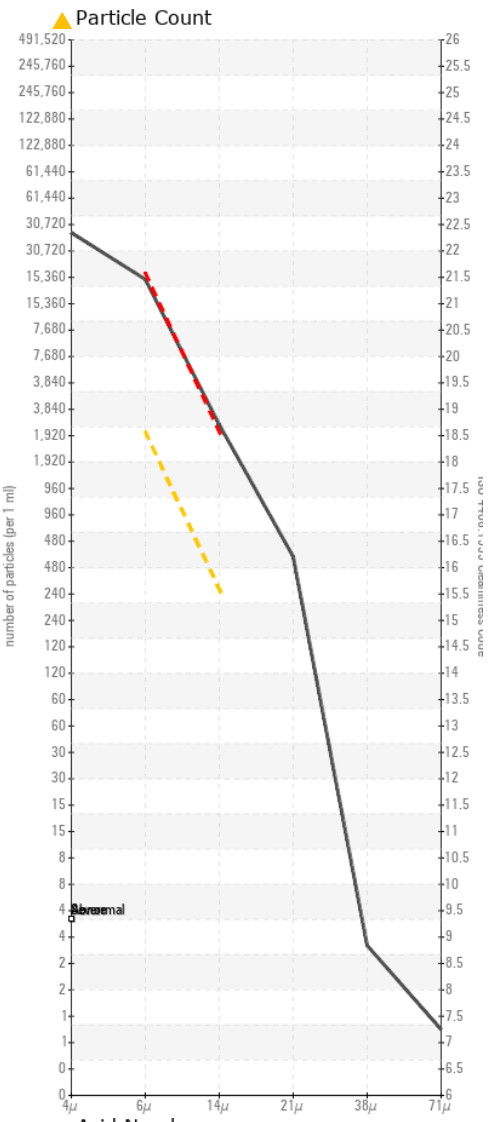
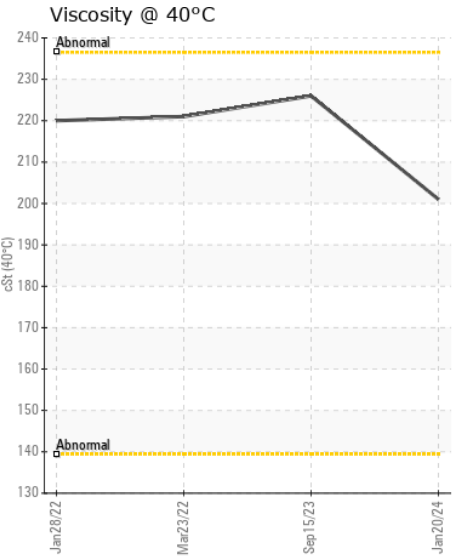
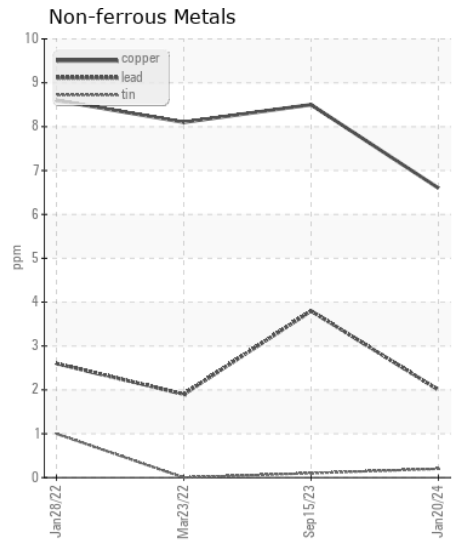
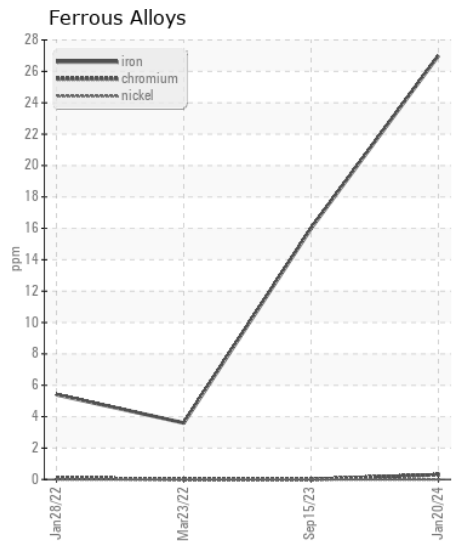
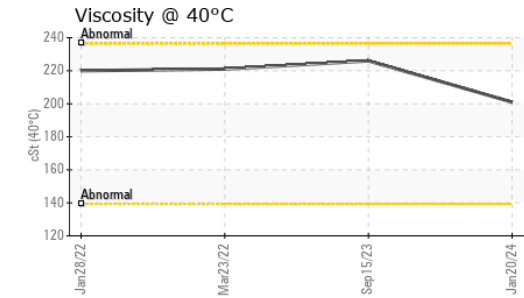
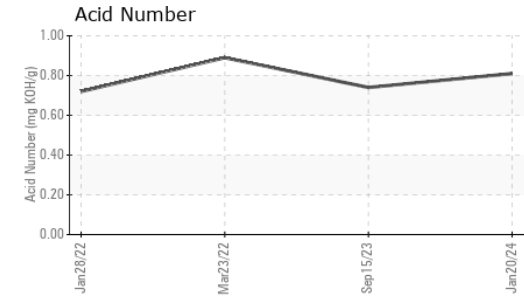
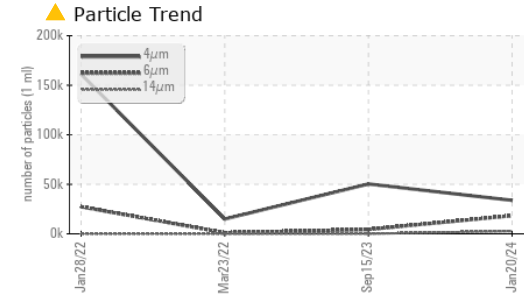
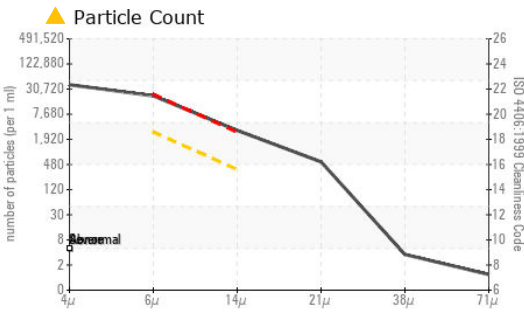
There is a high amount of particulates present in the fluid.

Silicon	ppm	ASTM D5185m	>125	5	7	5
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		33790	50313	14931
Particles >6µm		ASTM D7647	>2500	▲ 18349	▲ 4433	1012
Particles >14µm		ASTM D7647	>320	▲ 2742	66	15
Particles >21µm		ASTM D7647	>80	▲ 487	14	3
Particles >38µm		ASTM D7647	>20	3	1	0
Particles >71µm		ASTM D7647	>4	1	1	0
Oil Cleanliness		ISO 4406 (c)	>18/15	▲ 21/19	▲ 19/13	17/11
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 AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		0	5	3
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	10	6
Calcium	ppm	ASTM D5185m		3398	3562	3616
Phosphorus	ppm	ASTM D5185m		917	969	1038
Zinc	ppm	ASTM D5185m		851	871	849
Sulfur	ppm	ASTM D5185m		6746	6136	4636
Acid Number (AN)	mg KOH/g	ASTM D8045		0.81	0.74	0.89
Visc @ 40°C	cSt	ASTM D445		201	226	221



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013488 **Received** : 30 Jan 2024
Lab Number : 06074662 **Diagnosed** : 01 Feb 2024
Unique Number : 10856753 **Diagnostician** : Angela Borella
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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