



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GUAY SON [CONHER]
Machine Id
CATERPILLAR NAUTICO 5
Component
Transmission (Manual)
Fluid
RALYO SAE 50 (60 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Fluid: Raloy SAE 50)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014204	KL0013488	KL0012826
Sample Date		Client Info		20 Mar 2024	20 Jan 2024	15 Sep 2023
Machine Age	hrs	Client Info		0	0	13758
Oil Age	hrs	Client Info		1152	304	20
Filter Age	hrs	Client Info		1152	304	20
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	57	27	16
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	<1
Lead	ppm	ASTM D5185m	>45	3	2	4
Copper	ppm	ASTM D5185m	>225	12	7	8
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

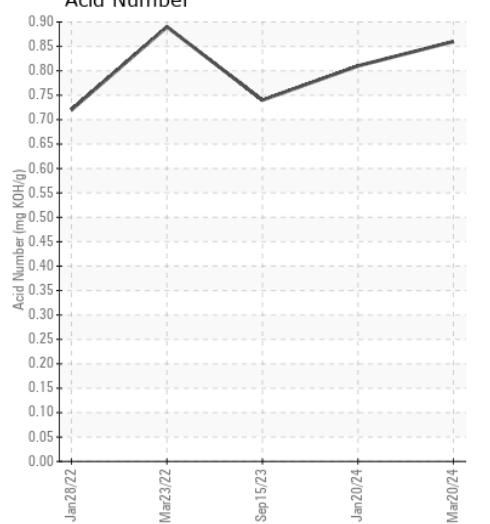
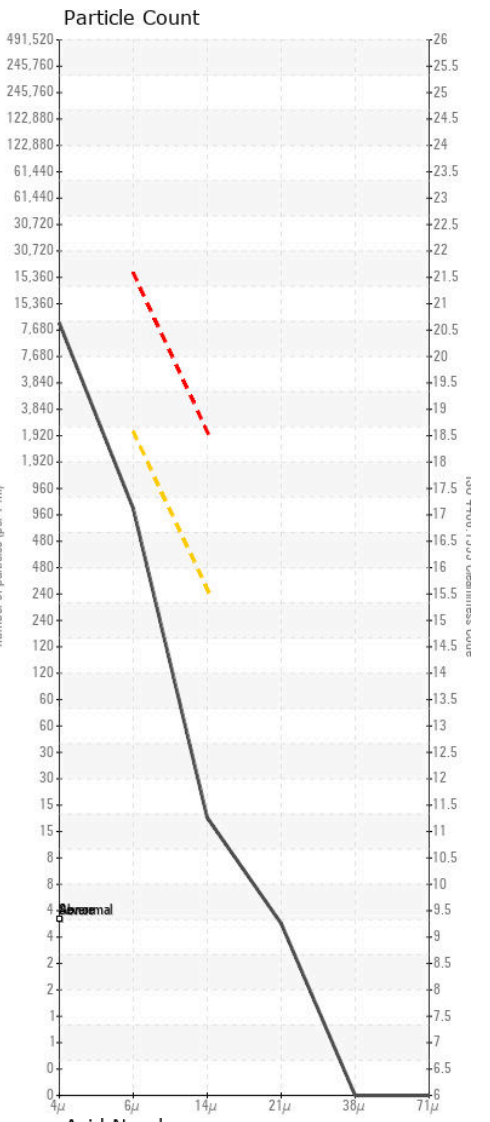
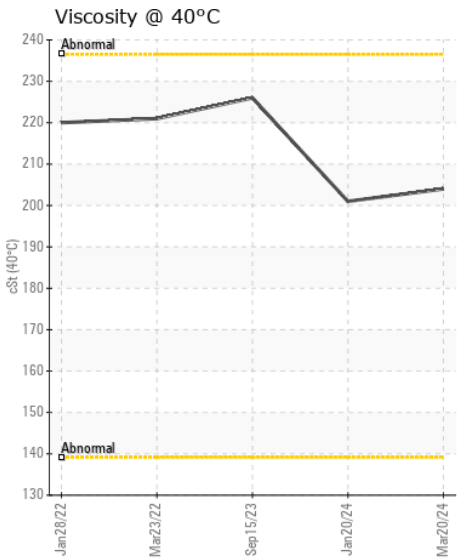
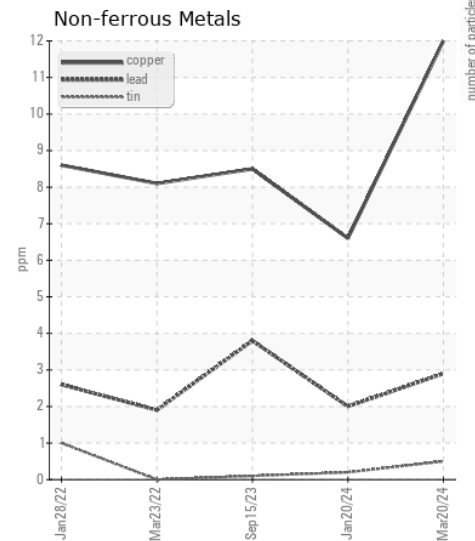
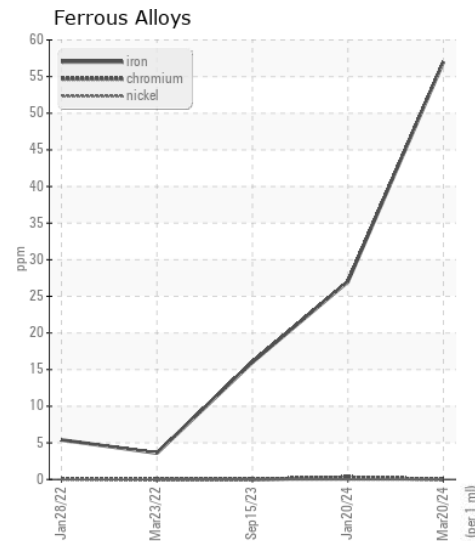
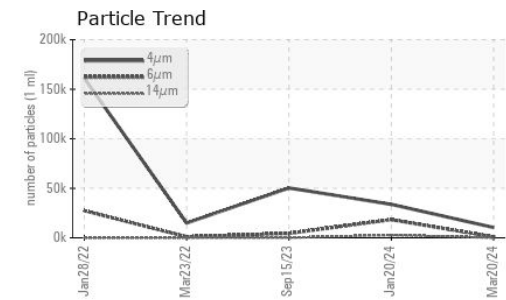
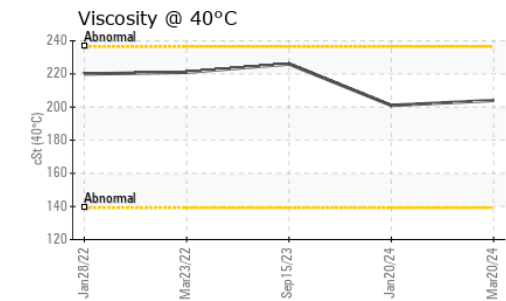
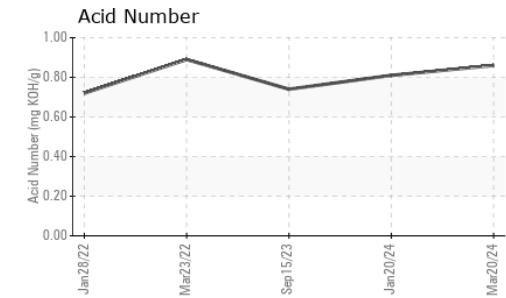
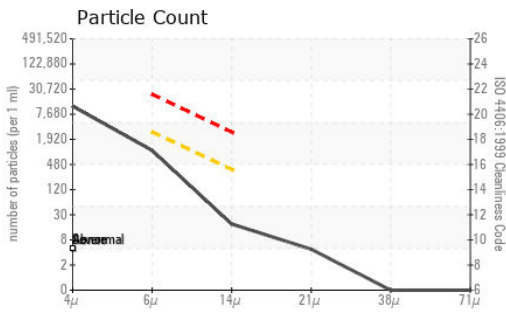
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>125	6	5	7
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		10372	33790	50313
Particles >6µm		ASTM D7647	>2500	913	▲ 18349	● 4433
Particles >14µm		ASTM D7647	>320	16	▲ 2742	66
Particles >21µm		ASTM D7647	>80	4	▲ 487	14
Particles >38µm		ASTM D7647	>20	0	3	1
Particles >71µm		ASTM D7647	>4	0	1	1
Oil Cleanliness		ISO 4406 (c)	>18/15	17/11	▲ 21/19	● 19/13
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		4	0	5
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		8	6	10
Calcium	ppm	ASTM D5185m		3394	3398	3562
Phosphorus	ppm	ASTM D5185m		995	917	969
Zinc	ppm	ASTM D5185m		833	851	871
Sulfur	ppm	ASTM D5185m		7143	6746	6136
Acid Number (AN)	mg KOH/g	ASTM D8045		0.86	0.81	0.74
Visc @ 40°C	cSt	ASTM D445		204	201	226



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014204 **Received** : 18 Apr 2024
Lab Number : 06153092 **Tested** : 19 Apr 2024
Unique Number : 10983170 **Diagnosed** : 22 Apr 2024 - 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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