



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
IBACO [CONHER]
Machine Id
BM Luis II
Component
Bottom Transmission (Manual)
Fluid
RALYO SAE 50 (38 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013470	KL0013419	KL0013338
Sample Date		Client Info		20 Jan 2024	14 Nov 2023	25 Oct 2023
Machine Age	hrs	Client Info		18637	0	17533
Oil Age	hrs	Client Info		821	283	1148
Filter Age	hrs	Client Info		821	283	1148
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	22	4	52
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	1
Lead	ppm	ASTM D5185m	>45	<1	<1	1
Copper	ppm	ASTM D5185m	>225	12	3	50
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

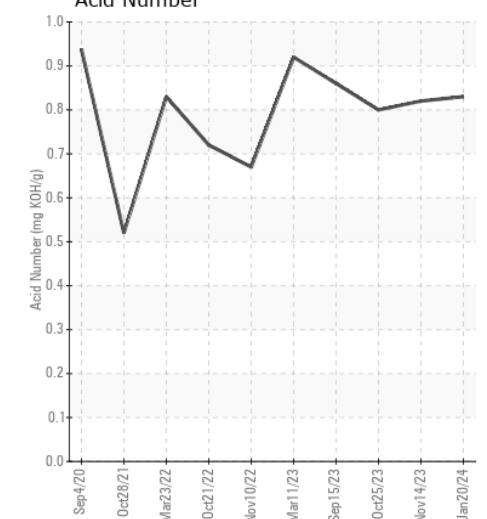
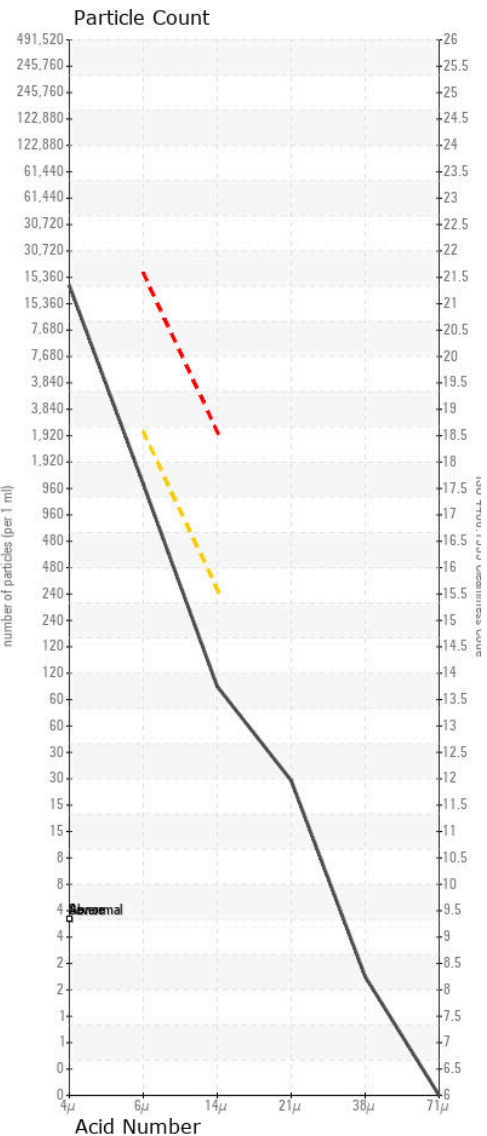
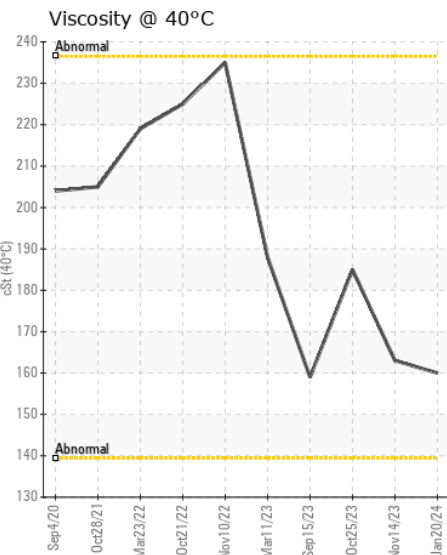
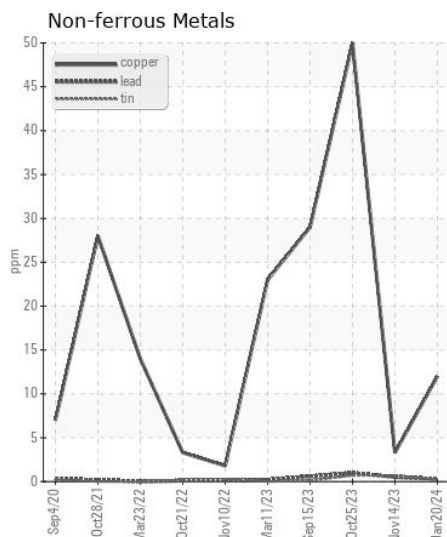
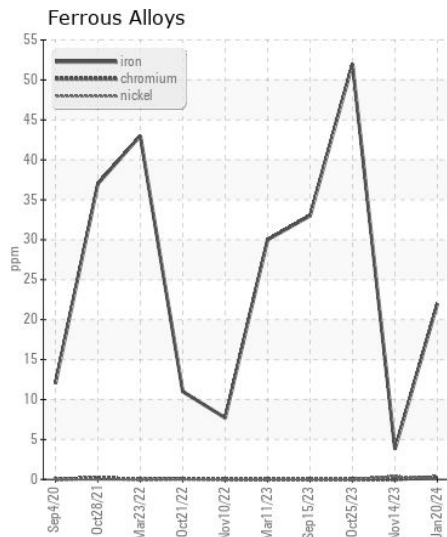
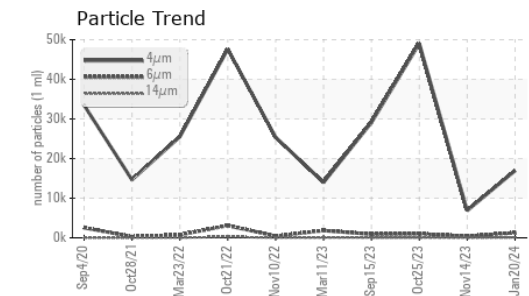
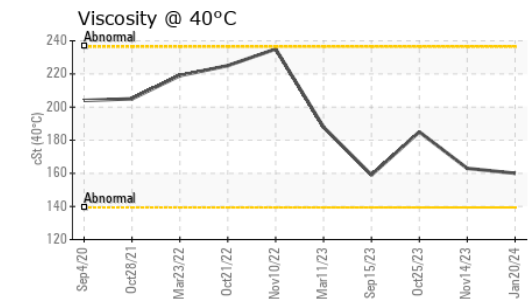
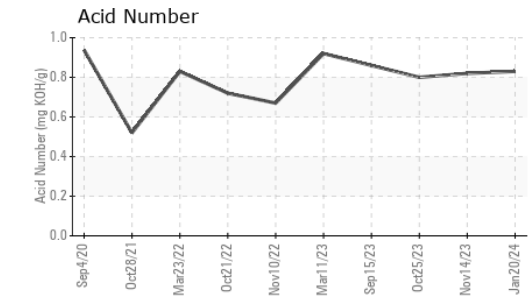
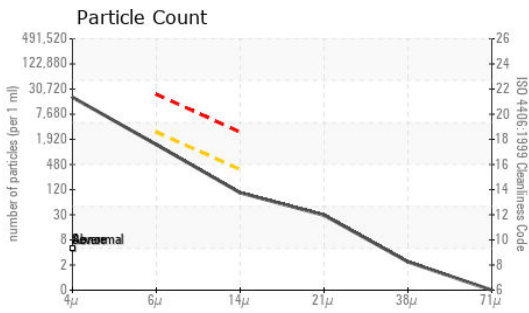
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>125	8	5	13
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		16958	6864	49057
Particles >6µm		ASTM D7647	>2500	1261	422	1026
Particles >14µm		ASTM D7647	>320	89	27	58
Particles >21µm		ASTM D7647	>80	26	6	18
Particles >38µm		ASTM D7647	>20	2	0	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	17/14	16/12	17/13
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 oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	<1	3
Boron	ppm	ASTM D5185m		15	14	80
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		10	8	18
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		59	61	102
Calcium	ppm	ASTM D5185m		2680	2576	2861
Phosphorus	ppm	ASTM D5185m		802	857	874
Zinc	ppm	ASTM D5185m		801	827	822
Sulfur	ppm	ASTM D5185m		5702	5167	4809
Acid Number (AN)	mg KOH/g	ASTM D8045		0.83	0.82	0.80
Visc @ 40°C	cSt	ASTM D445		160	163	185



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013470 **Received** : 30 Jan 2024
Lab Number : 06074656 **Diagnosed** : 01 Feb 2024
Unique Number : 10856747 **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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