



PERFORMANCE UNDER PRESSURE

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
TM 5
Machine Id
TM 5 CAL LEAD IN ROLL
Component
Gearbox
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0038087	RP0038083	---
Sample Date		Client Info		25 Jun 2024	29 Jan 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184		34	65	---
Iron	ppm	ASTM D5185m	>200	▲ 446	▲ 924	---
Chromium	ppm	ASTM D5185m	>15	2	5	---
Nickel	ppm	ASTM D5185m	>15	<1	4	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	2	---
Lead	ppm	ASTM D5185m	>100	0	<1	---
Copper	ppm	ASTM D5185m	>200	1	3	---
Tin	ppm	ASTM D5185m	>25	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

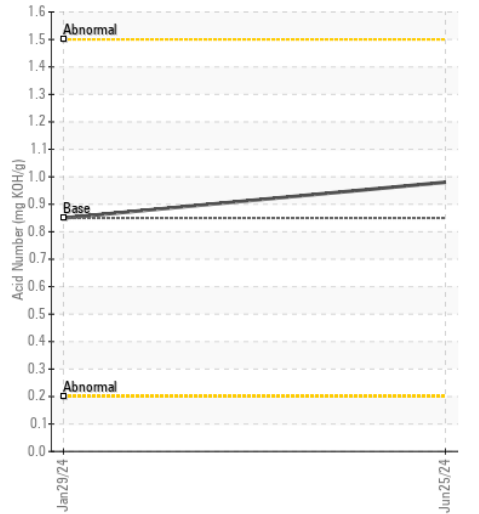
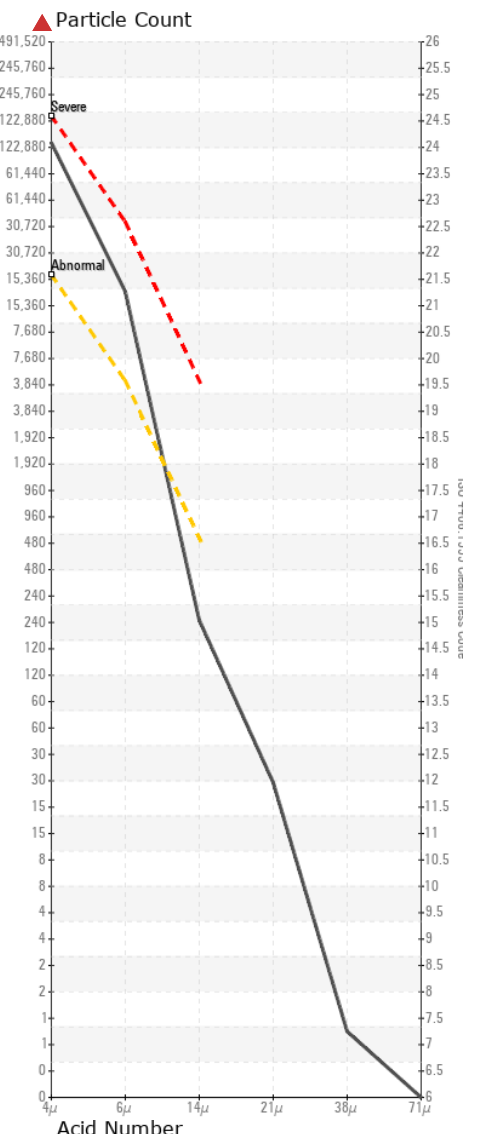
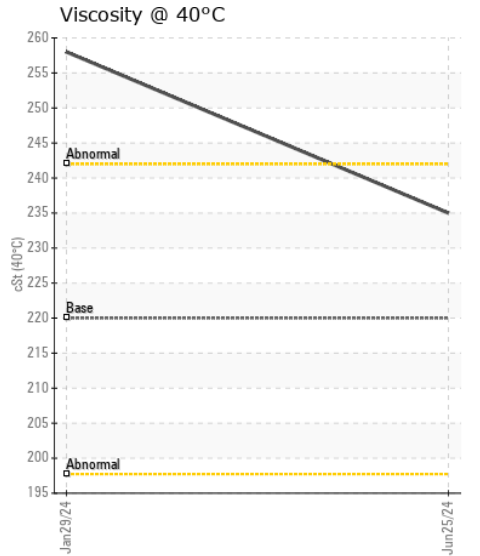
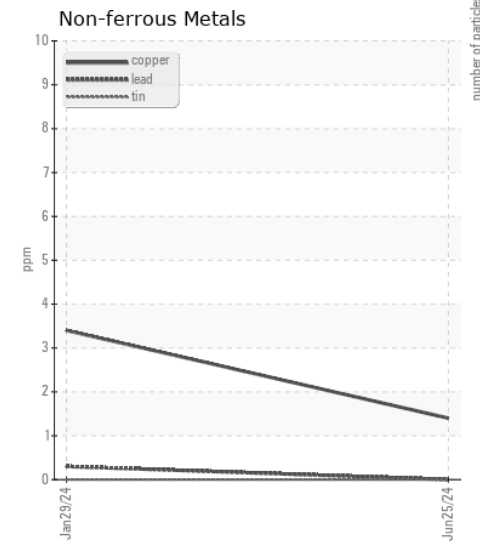
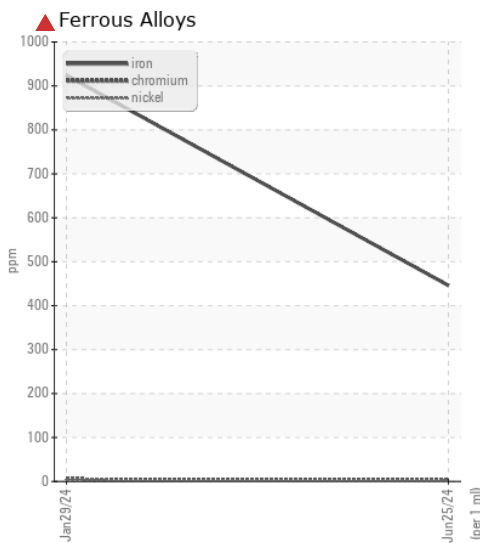
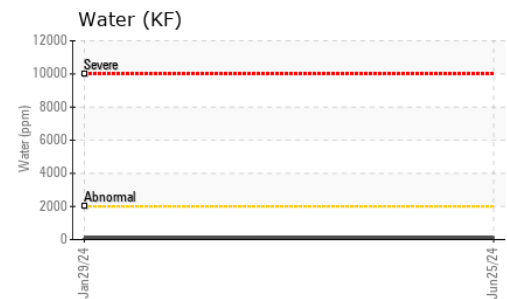
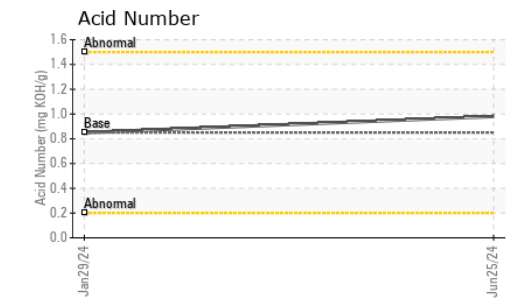
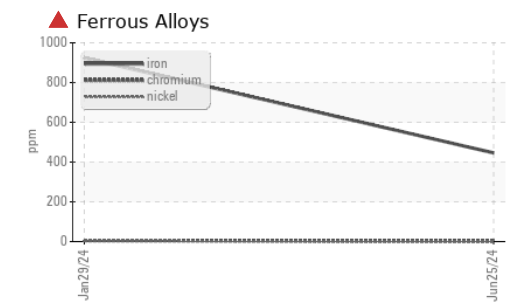
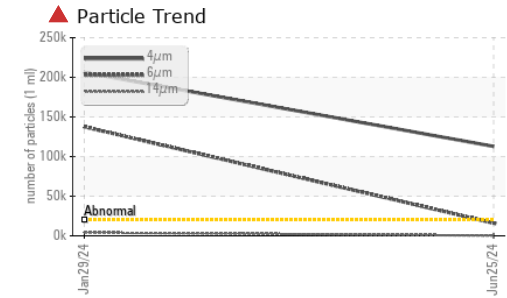
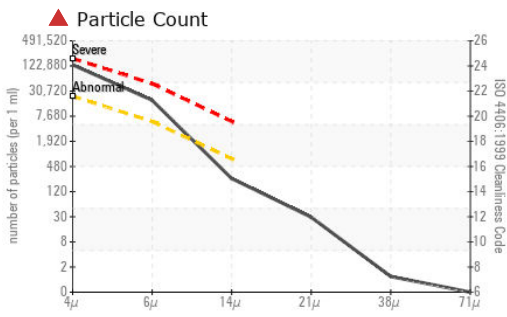
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>50	6	6	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water	%	ASTM D6304	>0.2	0.013	0.013	---
ppm Water	ppm	ASTM D6304	>2000	135	137	---
Particles >4µm		ASTM D7647	>20000	▲ 112837	▲ 206242	---
Particles >6µm		ASTM D7647	>5000	▲ 16041	▲ 137603	---
Particles >14µm		ASTM D7647	>640	218	▲ 4047	---
Particles >21µm		ASTM D7647	>160	26	▲ 350	---
Particles >38µm		ASTM D7647	>40	1	7	---
Particles >71µm		ASTM D7647	>10	0	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/21/15	▲ 25/24/19	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<1	0	---
Boron	ppm	ASTM D5185m	50	14	8	---
Barium	ppm	ASTM D5185m	15	0	0	---
Molybdenum	ppm	ASTM D5185m	15	0	<1	---
Manganese	ppm	ASTM D5185m		6	10	---
Magnesium	ppm	ASTM D5185m	50	1	2	---
Calcium	ppm	ASTM D5185m	50	<1	6	---
Phosphorus	ppm	ASTM D5185m	350	412	271	---
Zinc	ppm	ASTM D5185m	100	11	7	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.98	0.85	---
Visc @ 40°C	cSt	ASTM D445	220	235	258	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038087
Lab Number : 06221175
Unique Number : 11099372
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Don Baldrige

Kimberly-Clark - Mobile - TM 5
 200 BAYBRIDGE RD
 MOBILE, AL
 US 36610

Contact: WAYNE PERRY
 wayne.perry@kcc.com

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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