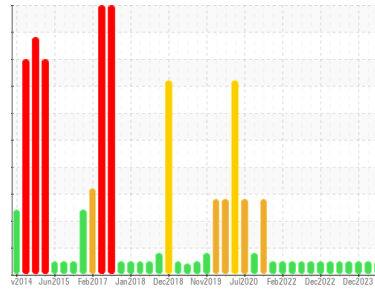




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**FIBER**

Machine Id

**FIBER BROKE CENTER SLUSH MAKER 3**

Component

**Gearbox**

Fluid

**GEAR OIL ISO 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0037929</b>	RP0030320	RP0030547
Sample Date	Client Info		<b>05 Jun 2024</b>	13 Mar 2024	27 Dec 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>21</b>	16	---
Iron	ppm	ASTM D5185m >200	<b>23</b>	15	16
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >15	<b>2</b>	<1	1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	0	2
Lead	ppm	ASTM D5185m >100	<b>&lt;1</b>	2	0
Copper	ppm	ASTM D5185m >200	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>25</b>	18	17
Barium	ppm	ASTM D5185m 15	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 15	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 50	<b>&lt;1</b>	0	1
Calcium	ppm	ASTM D5185m 50	<b>0</b>	0	1
Phosphorus	ppm	ASTM D5185m 350	<b>356</b>	364	389
Zinc	ppm	ASTM D5185m 100	<b>19</b>	4	0

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>3</b>	<1	0
Sodium	ppm	ASTM D5185m	<b>2</b>	3	0
Potassium	ppm	ASTM D5185m >20	<b>1</b>	2	2
Water	%	ASTM D6304 >0.2	<b>0.015</b>	0.011	0.014
ppm Water	ppm	ASTM D6304 >2000	<b>153</b>	118	143

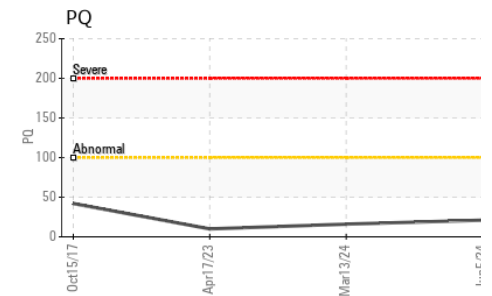
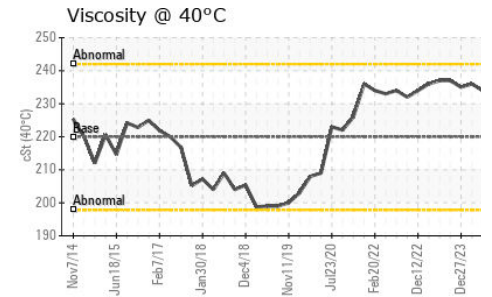
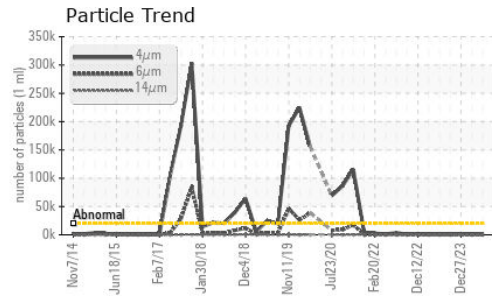
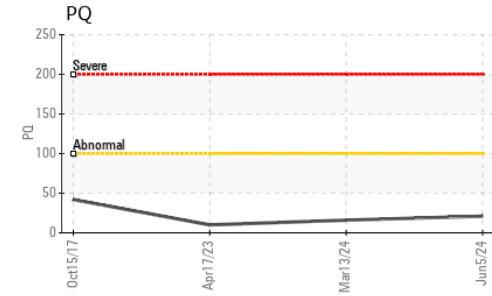
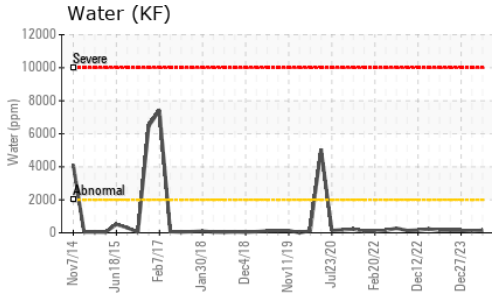
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>843</b>	770	1688
Particles >6µm	ASTM D7647	>5000	<b>178</b>	212	425
Particles >14µm	ASTM D7647	>640	<b>15</b>	23	32
Particles >21µm	ASTM D7647	>160	<b>3</b>	7	7
Particles >38µm	ASTM D7647	>40	<b>0</b>	1	0
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>17/15/11</b>	17/15/12	18/16/12

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	<b>1.64</b>	1.58	1.43

# OIL ANALYSIS REPORT

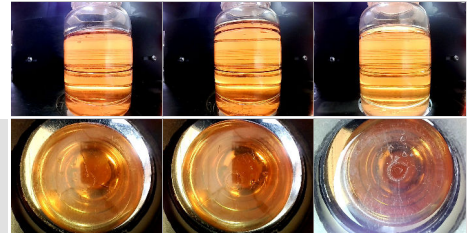


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	234	236

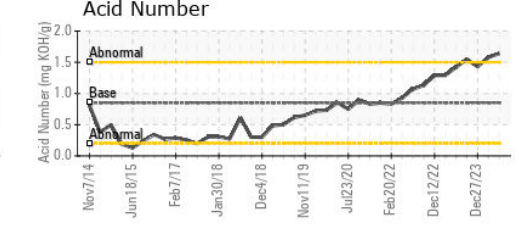
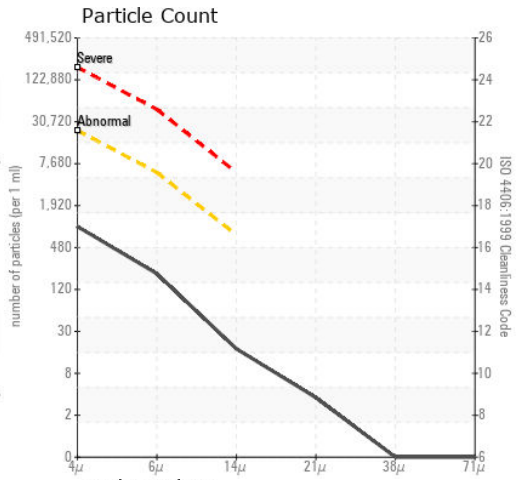
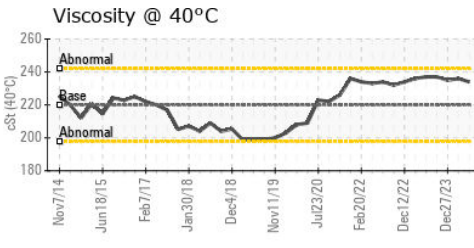
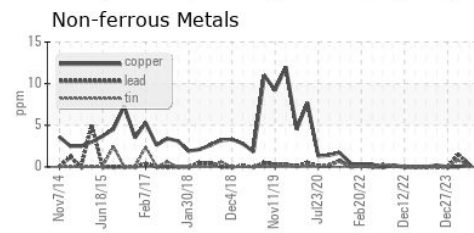
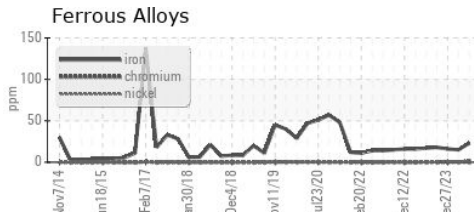
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



Bottom

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0037929  
**Lab Number** : 06201511  
**Unique Number** : 11063634  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount )

**Kimberly-Clark - Mobile - Fiber - BC UNITS**  
 200 BAYBRIDGE RD  
 MOBILE, AL  
 US 36610

Contact: MARK BOSARGE  
 Mark.W.Bosarge@kcc.com  
 T: (251)330-2221  
 F: (251)452-6335

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)