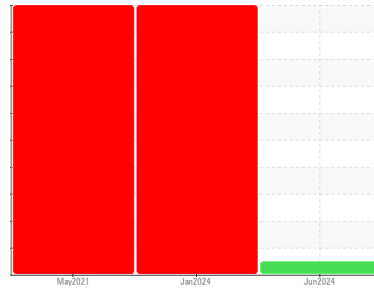




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**TM 5**  
 Machine Id  
**TM 5 SAVEALL**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL (PAO) ISO 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### 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>RP0038086</b>	RP0038082	RP05263967
Sample Date	Client Info			<b>25 Jun 2024</b>	29 Jan 2024	25 May 2021
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>	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>22</b>	▲ 4084	---
Iron	ppm	ASTM D5185m	>200	<b>38</b>	▲ 4173	▲ 4867
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	▲ 993	▲ 1556
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	▲ 821	▲ 1313
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	2	4
Lead	ppm	ASTM D5185m	>100	<b>0</b>	<1	64
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	130	▲ 1832
Tin	ppm	ASTM D5185m	>25	<b>0</b>	6	▲ 253
Antimony	ppm	ASTM D5185m	>5	<b>---</b>	---	39
Vanadium	ppm	ASTM D5185m		<b>0</b>	3	10
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	<1

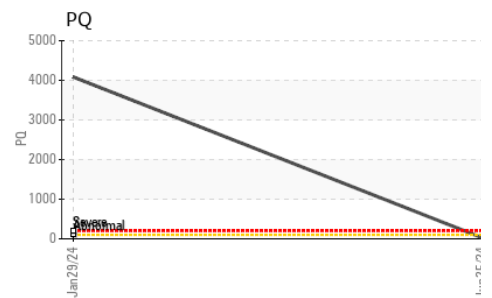
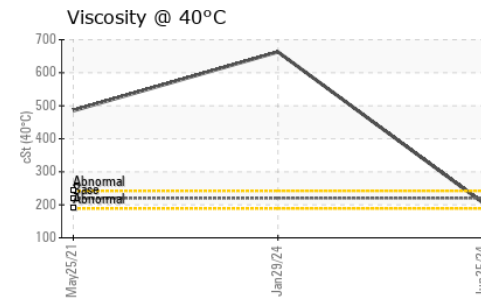
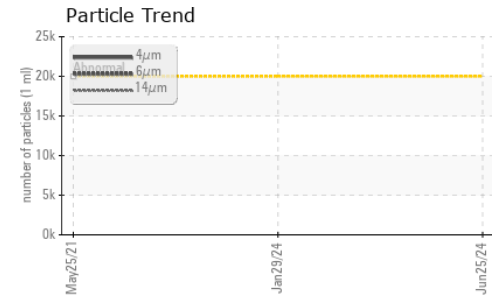
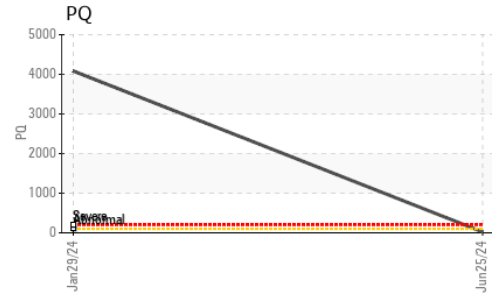
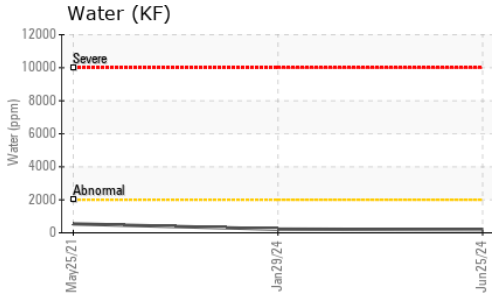
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	<b>28</b>	2	23
Barium	ppm	ASTM D5185m	12	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	7	0
Manganese	ppm	ASTM D5185m		<b>2</b>	49	113
Magnesium	ppm	ASTM D5185m	25	<b>0</b>	0	2
Calcium	ppm	ASTM D5185m	25	<b>&lt;1</b>	5	31
Phosphorus	ppm	ASTM D5185m	375	<b>423</b>	120	253
Zinc	ppm	ASTM D5185m	25	<b>10</b>	0	38

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>4</b>	36	▲ 87
Sodium	ppm	ASTM D5185m		<b>2</b>	6	13
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	6	0
Water	%	ASTM D6304	>0.2	<b>0.018</b>	0.022	0.054
ppm Water	ppm	ASTM D6304	>2000	<b>189</b>	222	544.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>5598</b>	---	---
Particles >6µm		ASTM D7647	>5000	<b>395</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>14</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>3</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>20/16/11</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.10	<b>1.38</b>	0.39	0.349

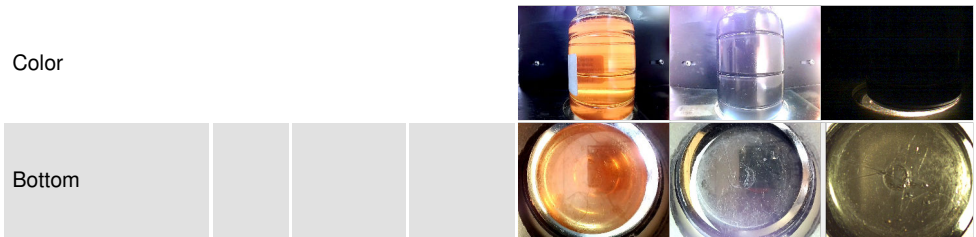
# OIL ANALYSIS REPORT



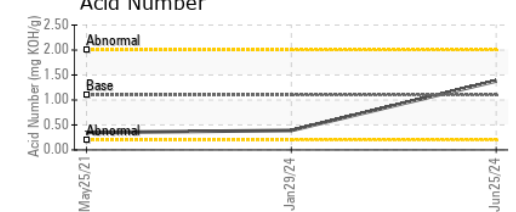
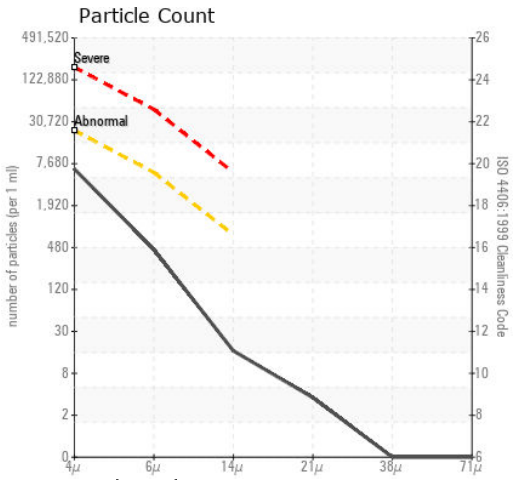
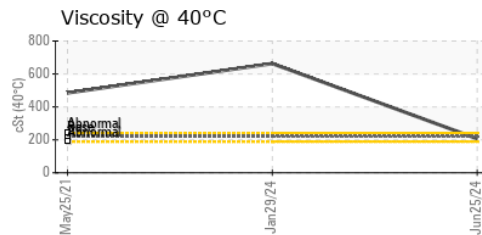
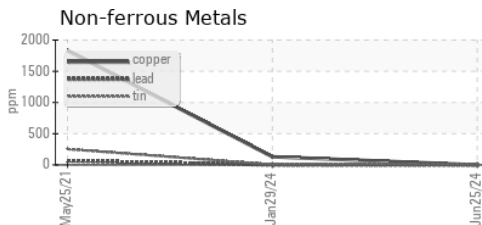
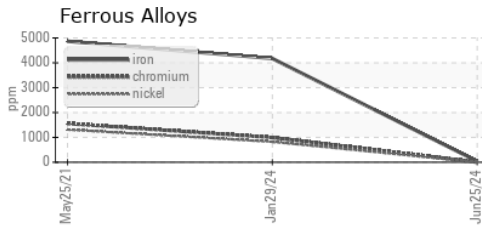
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	220	<b>207</b>	663	485

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0038086  
**Lab Number** : **06221176**  
**Unique Number** : 11099373  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount )

**Kimberly-Clark - Mobile - TM 5**  
 200 BAYBRIDGE RD  
 MOBILE, AL  
 US 36610  
 Contact: WAYNE PERRY  
 wayne.perry@kcc.com  
 T: (251)330-2386  
 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)