



PERFORMANCE  
UNDER  
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

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

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

**WEAR**

All component wear rates are normal.

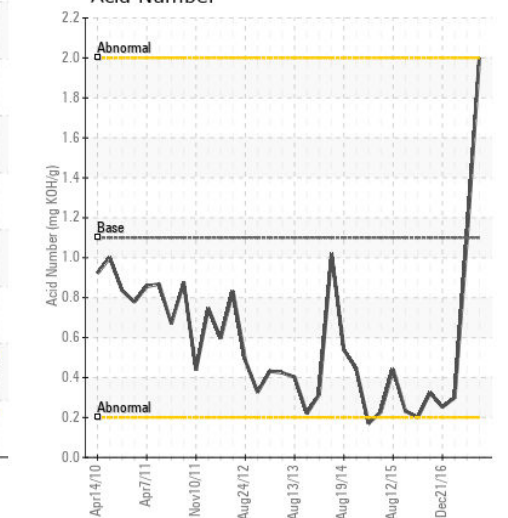
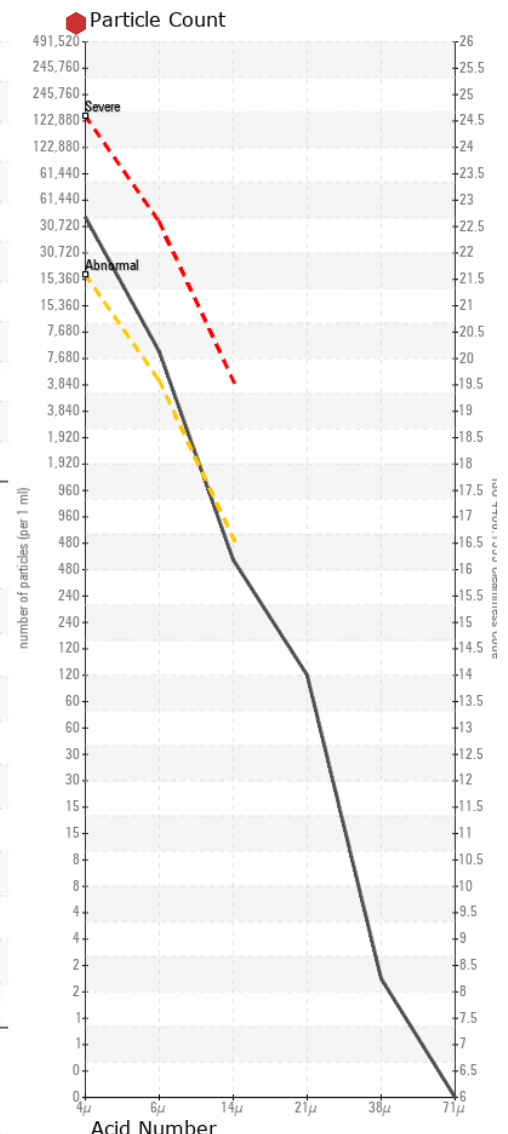
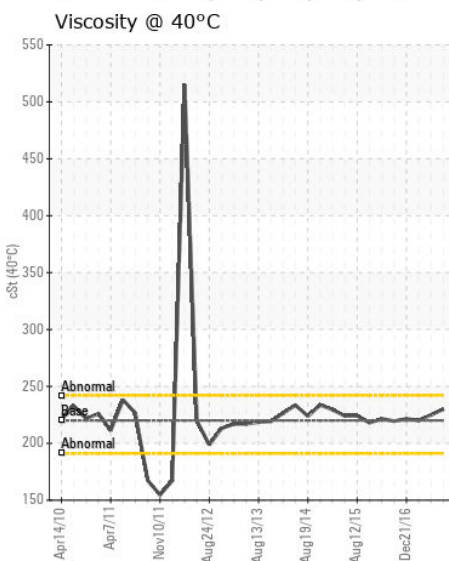
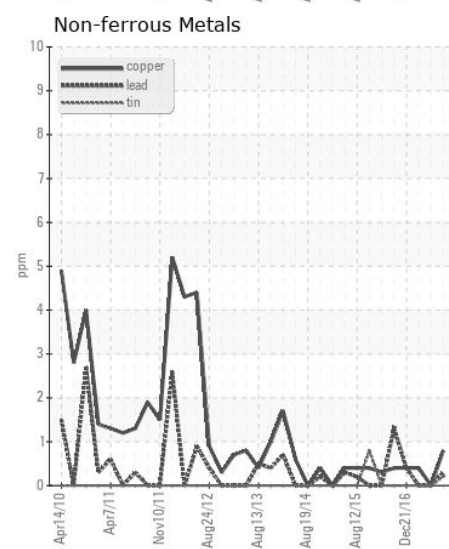
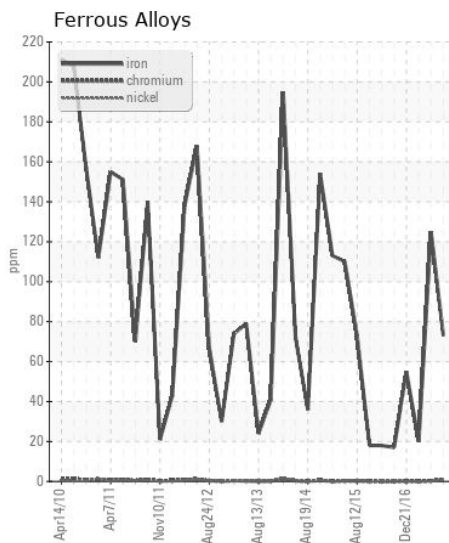
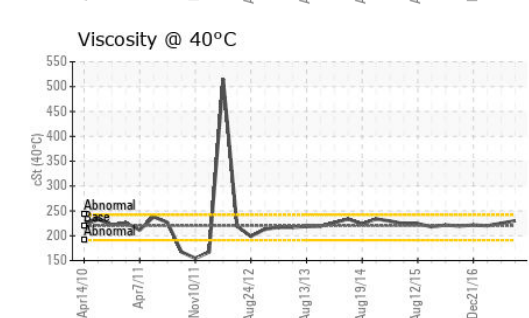
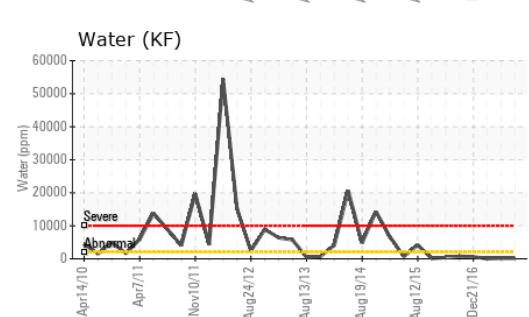
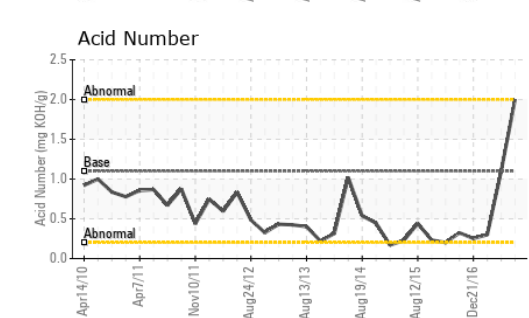
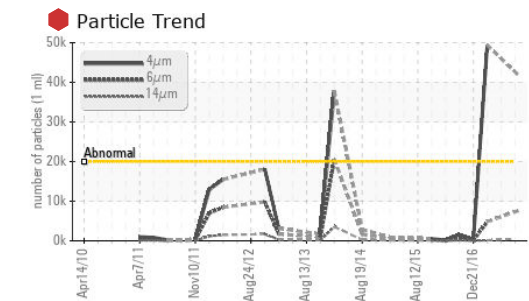
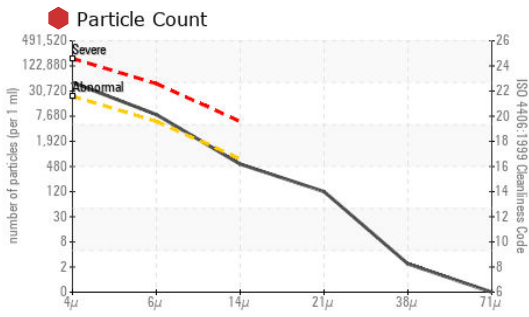
**CONTAMINATION**

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

**FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RP0038119</b>	RP0023604	RP190988
Sample Date		Client Info		<b>29 Jan 2024</b>	24 May 2023	18 Mar 2018
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	ABNORMAL	NORMAL
PQ		ASTM D8184		<b>18</b>	12	---
Iron	ppm	ASTM D5185m	>200	<b>73</b>	125	20
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	0
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	<b>14</b>	24	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Water	%	ASTM D6304	>0.2	<b>0.017</b>	0.017	0.001
ppm Water	ppm	ASTM D6304	>2000	<b>171</b>	170.9	10
Particles >4µm		ASTM D7647	>20000	<b>42632</b>	---	49386
Particles >6µm		ASTM D7647	>5000	<b>7327</b>	---	4814
Particles >14µm		ASTM D7647	>640	<b>480</b>	---	139
Particles >21µm		ASTM D7647	>160	<b>106</b>	---	32
Particles >38µm		ASTM D7647	>40	<b>2</b>	---	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>23/20/16</b>	---	23/19/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	VLITE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>0</b>	3	4
Boron	ppm	ASTM D5185m	25	<b>31</b>	25	<1
Barium	ppm	ASTM D5185m	12	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	25	<b>&lt;1</b>	<1	2
Calcium	ppm	ASTM D5185m	25	<b>4</b>	3	7
Phosphorus	ppm	ASTM D5185m	375	<b>359</b>	347	101
Zinc	ppm	ASTM D5185m	25	<b>0</b>	0	<1
Acid Number (AN)	mg KOH/g	ASTM D8045	1.10	<b>2.00</b>	1.10	0.300
Visc @ 40°C	cSt	ASTM D445	220	<b>230</b>	225	220.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0038119 **Received** : 30 Jan 2024  
**Lab Number** : 06074718 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856809 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount )

**Kimberly-Clark - Mobile - TM 5**  
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Certificate L2367  
 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)