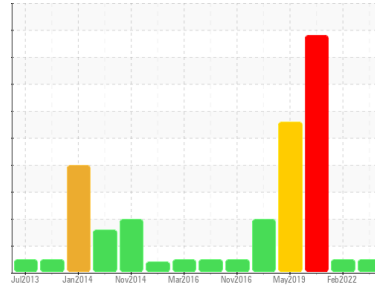




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**420.XX224 - 2 O2 REACTOR DISTRIBUTOR**

Component  
**Gearbox**

Fluid  
**ROYAL PURPLE SYNFILM GT 320 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. 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>WC0432381</b>	WC0432383	RP0000397
Sample Date	Client Info		<b>09 Mar 2023</b>	24 Feb 2022	14 Aug 2019
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	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>20</b>	29	6
Chromium	ppm	ASTM D5185m >15	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >15	<b>0</b>	0	<1
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>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185m >100	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >200	<b>6</b>	8	1
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185m >5	<b>---</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	<1	2
Barium	ppm	ASTM D5185m	<b>15</b>	0	<1
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 90	<b>41</b>	58	55
Calcium	ppm	ASTM D5185m	<b>14</b>	2	4
Phosphorus	ppm	ASTM D5185m	<b>10</b>	10	10
Zinc	ppm	ASTM D5185m	<b>11</b>	0	3
Sulfur	ppm	ASTM D5185m	<b>17036</b>	15547	15473

## CONTAMINANTS

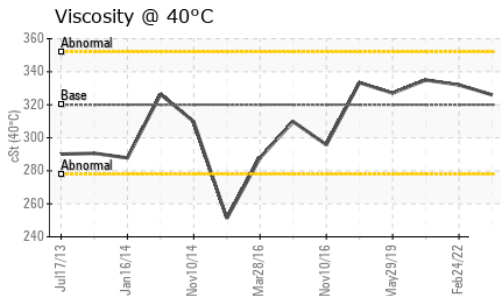
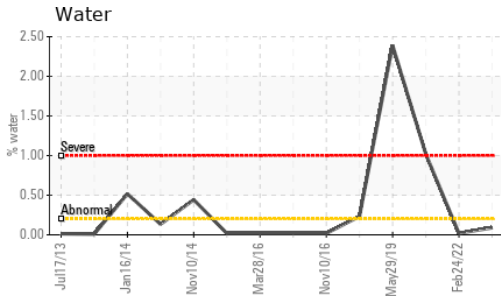
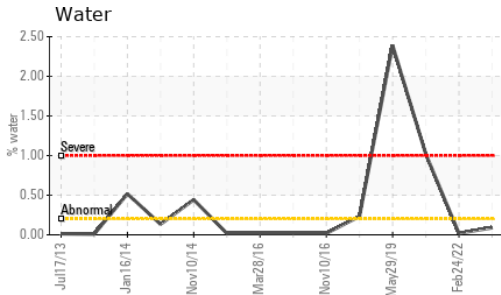
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>2</b>	2	8
Sodium	ppm	ASTM D5185m	<b>0</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304 >0.2	<b>0.089</b>	0.020	1.02
ppm Water	ppm	ASTM D6304 >2000	<b>890</b>	201.2	10200

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.25	<b>0.32</b>	0.38	0.443



# OIL ANALYSIS REPORT



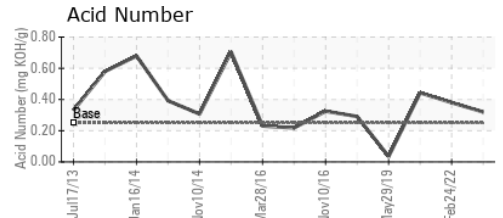
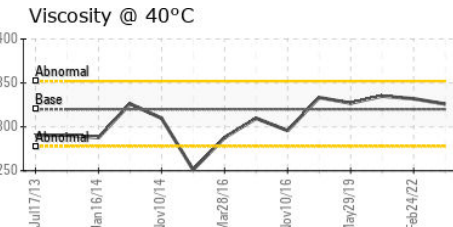
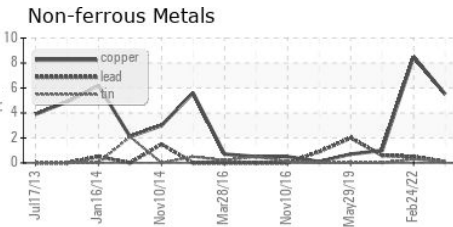
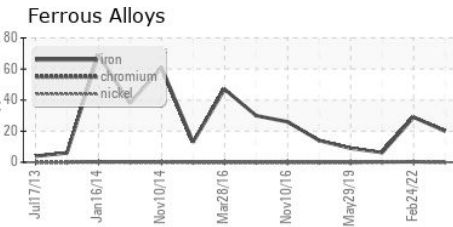
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	▲ LAYRD	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	● 0.2%
Free Water	scalar	*Visual		NEG	NEG	● 10.0

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	320	326	332	335

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0432381 **Received** : 13 Mar 2023  
**Lab Number** : 05789798 **Diagnosed** : 14 Mar 2023  
**Unique Number** : 10374469 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF )

**INTERNATIONAL PAPER**  
 1785 Weyerhaeuser Road  
 VANCEBORO, NC  
 US 28586

Contact: DOUG WEIR  
 Doug.Weir@paper.com;jon.fazenbaker@wearcheck.com

T: (252)633-7350  
 F: (252)633-7761

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)