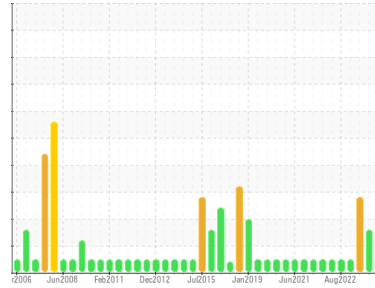




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**038CM312.001**

Component  
**Turbine**

Fluid  
**ROYAL PURPLE SYNFILM GT 32 (500 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 condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0027333</b>	RP0028205	RP0027342
Sample Date	Client Info		<b>15 Apr 2024</b>	15 Feb 2024	22 Oct 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>	MARGINAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	0
Chromium	ppm	ASTM D5185m >4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >2	<b>1</b>	0	2
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	0	1
Lead	ppm	ASTM D5185m	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >5	<b>2</b>	<1	0
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m	<b>4</b>	<1	7
Calcium	ppm	ASTM D5185m	<b>1</b>	2	2
Phosphorus	ppm	ASTM D5185m	<b>2669</b>	2317	2839
Zinc	ppm	ASTM D5185m	<b>0</b>	0	0

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	0
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	2
Potassium	ppm	ASTM D5185m >20	<b>3</b>	<1	6
Water	%	ASTM D6304 >0.03	<b>0.108</b>	▲ 0.070	▲ 0.150
ppm Water	ppm	ASTM D6304 >300	<b>1082</b>	▲ 701	▲ 1505.9

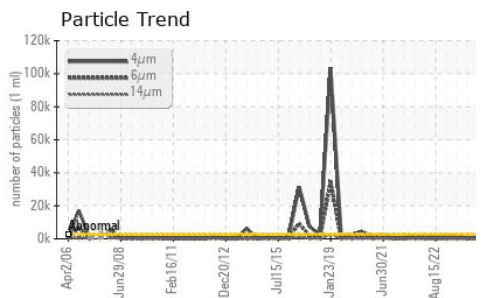
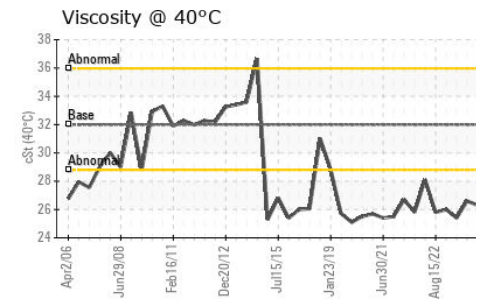
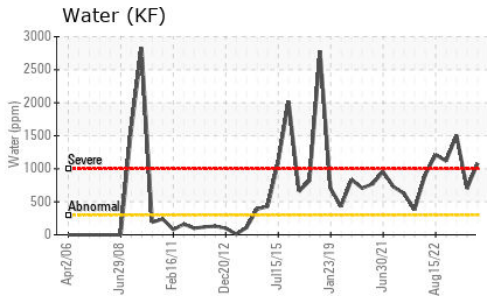
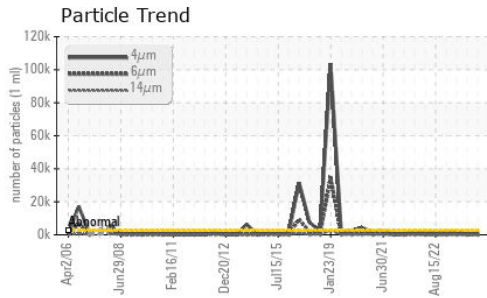
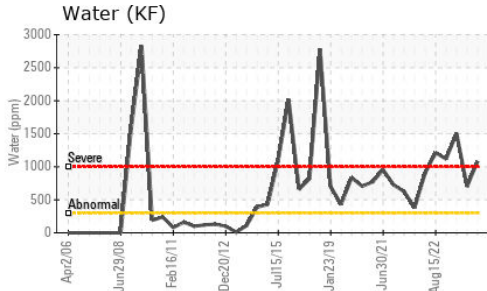
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>961</b>	359	2077
Particles >6µm	ASTM D7647	>640	<b>295</b>	122	578
Particles >14µm	ASTM D7647	>80	<b>41</b>	18	29
Particles >21µm	ASTM D7647	>20	<b>12</b>	7	6
Particles >38µm	ASTM D7647	>4	<b>0</b>	1	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>17/15/13</b>	16/14/11	18/16/12

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.98</b>	0.77	▲ 4.24

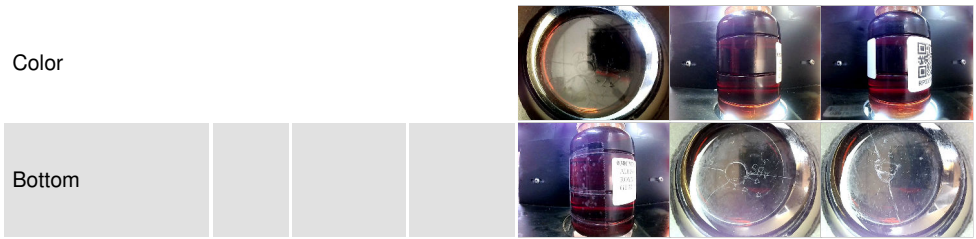
# OIL ANALYSIS REPORT



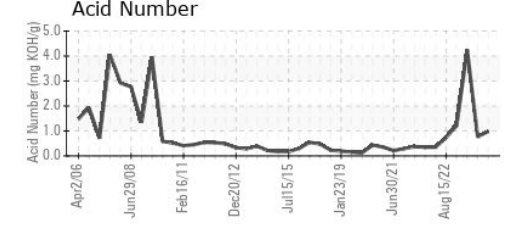
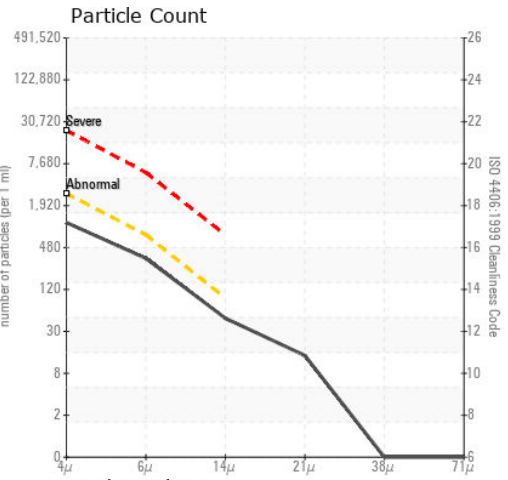
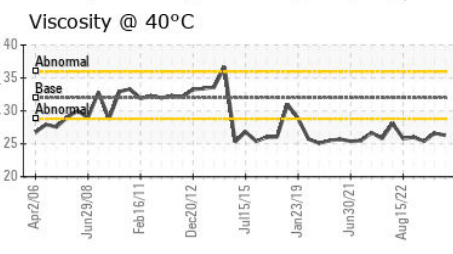
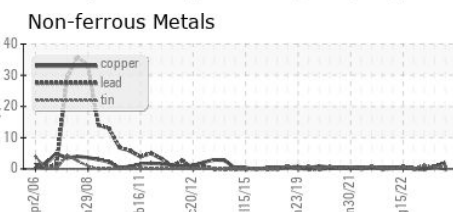
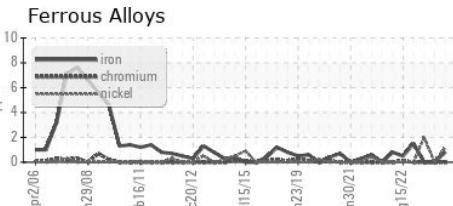
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	<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	32	<b>26.3</b>	26.6	25.4

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0027333 **Received** : 16 Apr 2024  
**Lab Number** : 06151139 **Tested** : 19 Apr 2024  
**Unique Number** : 10981217 **Diagnosed** : 19 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**ENTERPRISE PRODUCTS**  
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tedwards@eprod.com  
T: (281)217-1411  
F: (281)385-4327

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)