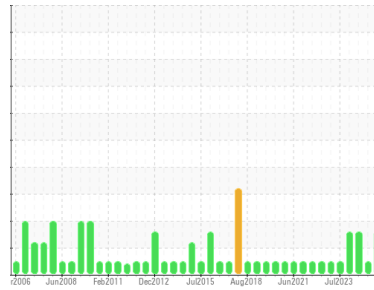




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**038CM312.002**

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

There is a trace of moisture present 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>RP0027322</b>	RP0027334	RP0028206
Sample Date	Client Info	<b>15 Jul 2024</b>	15 Apr 2024	15 Feb 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>MARGINAL</b>	NORMAL	MARGINAL

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	0	1
Magnesium	ppm	ASTM D5185m	<1	2
Calcium	ppm	ASTM D5185m	0	<1
Phosphorus	ppm	ASTM D5185m	<b>2720</b>	2430
Zinc	ppm	ASTM D5185m	0	0

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	<1
Sodium	ppm	ASTM D5185m	0	1
Potassium	ppm	ASTM D5185m >20	0	3
Water	%	ASTM D6304 >0.03	<b>0.086</b>	0.094
ppm Water	ppm	ASTM D6304 >300	<b>861</b>	945

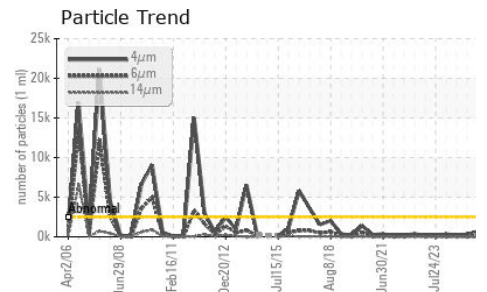
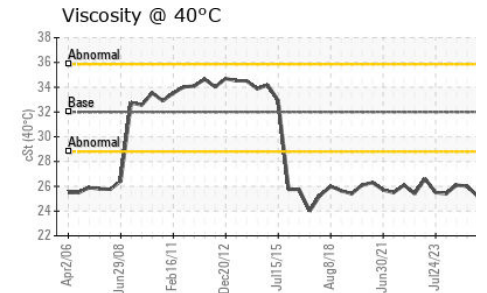
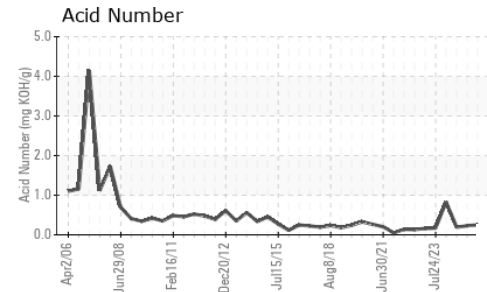
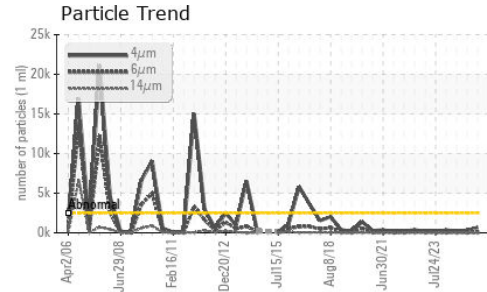
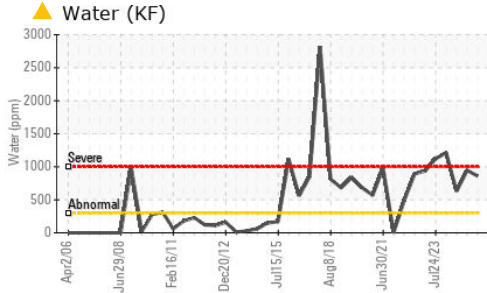
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	<b>680</b>	319	249
Particles >6µm	ASTM D7647 >640	<b>72</b>	57	111
Particles >14µm	ASTM D7647 >80	<b>5</b>	7	16
Particles >21µm	ASTM D7647 >20	<b>2</b>	2	3
Particles >38µm	ASTM D7647 >4	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >18/16/13	<b>17/13/10</b>	15/13/10	15/14/11

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.25</b>	0.23

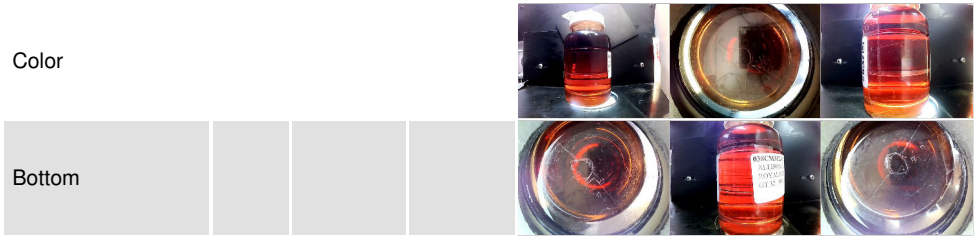
# OIL ANALYSIS REPORT



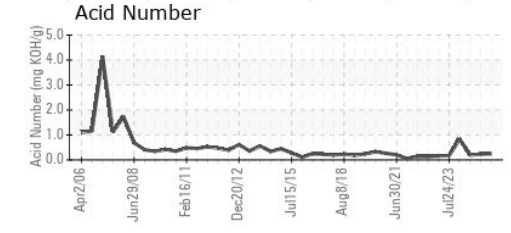
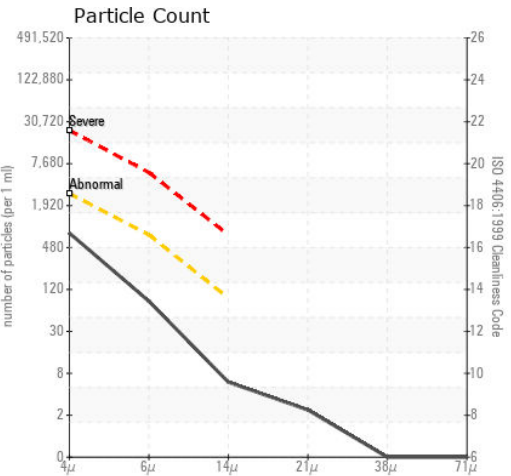
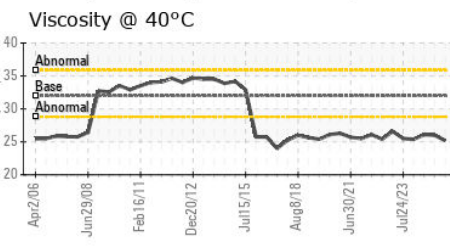
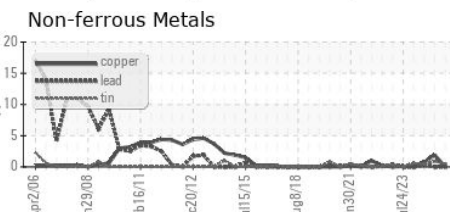
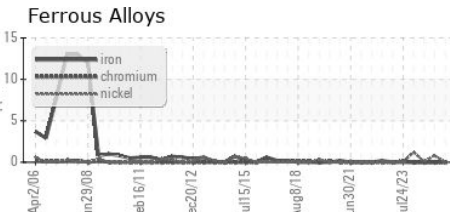
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	32	25.2	26.0	26.1

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0027322 **Received** : 16 Jul 2024  
**Lab Number** : 06237774 **Tested** : 17 Jul 2024  
**Unique Number** : 11126608 **Diagnosed** : 18 Jul 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**ENTERPRISE PRODUCTS**  
P.O. BOX 573  
MONT BELVIEU, TX  
US 77580  
Contact: TOMMY EDWARDS  
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)