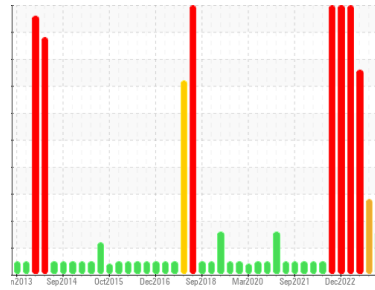




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



## Machine Id PHILADELPHIA DOG POLY AGITATOR (D)

Component  
**Gearbox**

Fluid  
**ROYAL PURPLE SYNERGY 90/150 (15 GAL)**

### DIAGNOSIS

#### ▲ 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 light concentration of water present 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>RP0035835</b>	RP0027486	RP0032868
Sample Date	Client Info	<b>02 Jan 2024</b>	20 Dec 2023	03 Oct 2023
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>ABNORMAL</b>	ABNORMAL	SEVERE

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>56</b>	▲ 235	● 541
Chromium	ppm	ASTM D5185m >15	<1	2	6
Nickel	ppm	ASTM D5185m >15	0	<1	2
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	1	2
Lead	ppm	ASTM D5185m >100	0	0	<1
Copper	ppm	ASTM D5185m >200	<1	2	2
Tin	ppm	ASTM D5185m >25	<1	<1	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

### ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	2	3
Molybdenum	ppm	ASTM D5185m	<1	<1	2
Manganese	ppm	ASTM D5185m	0	<1	2
Magnesium	ppm	ASTM D5185m	0	2	<1
Calcium	ppm	ASTM D5185m	3	2	3
Phosphorus	ppm	ASTM D5185m 200	<b>488</b>	444	454
Zinc	ppm	ASTM D5185m	0	0	0

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	5	5	12
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	<1	<1	1
Water	%	ASTM D6304 >0.2	▲ <b>0.245</b>	▲ 0.327	▲ 0.802
ppm Water	ppm	ASTM D6304 >2000	▲ <b>2450</b>	▲ 3270	▲ 8020

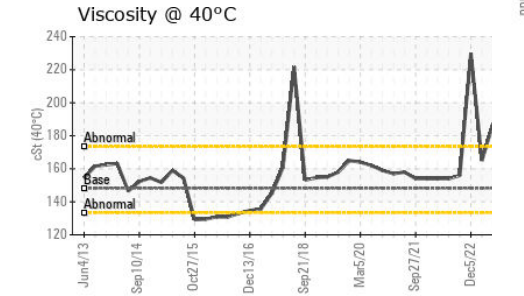
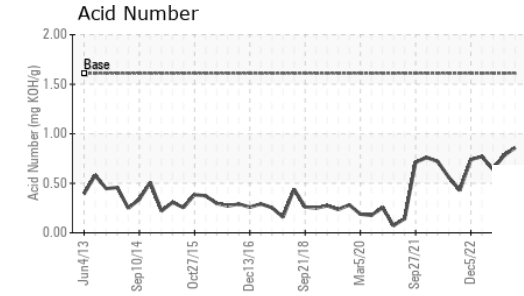
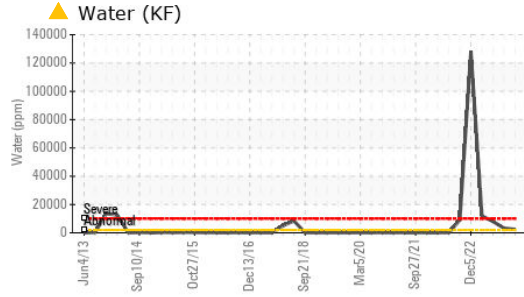
### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 1.61	<b>0.86</b>	0.78	0.64

### VISUAL

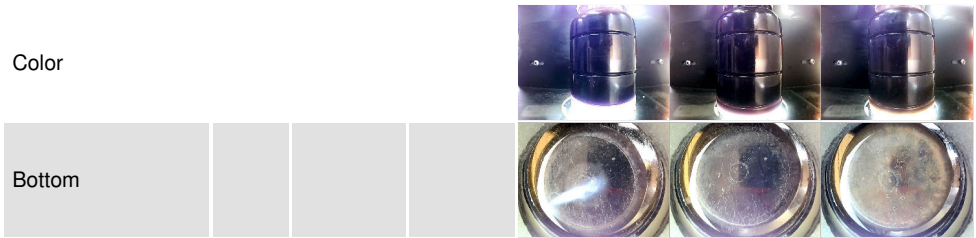
method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	▲ MODER	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 >0.2	<b>0.2%</b>	0.2%	0.2%
Free Water	scalar	*Visual	<b>NEG</b>		

# OIL ANALYSIS REPORT

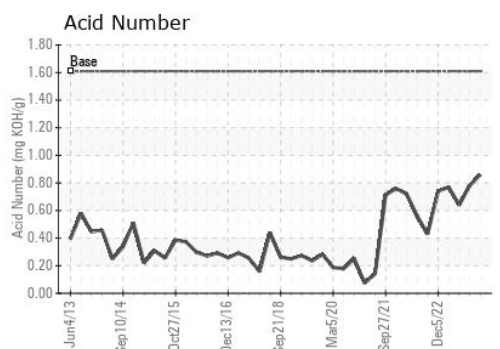
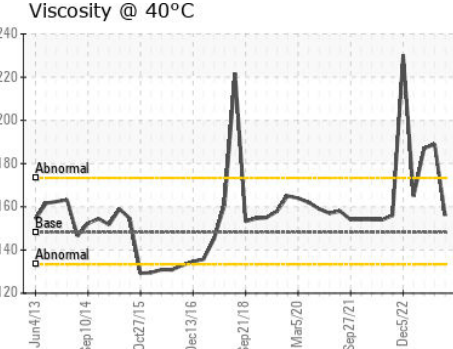
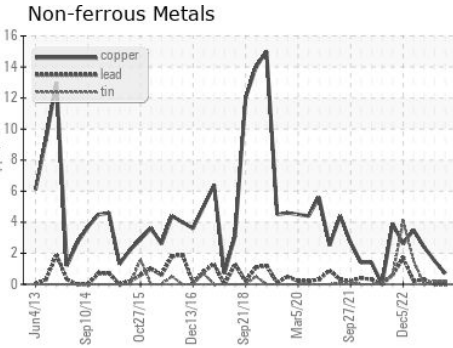
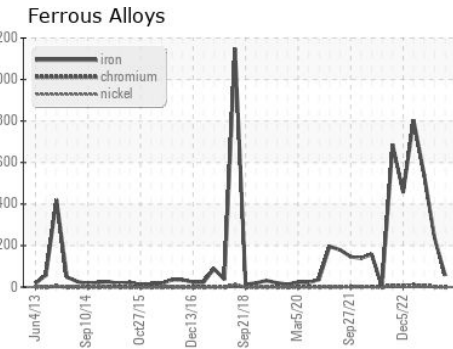


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	148.2	<b>156</b>	189	187

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0035835 **Received** : 16 Jan 2024  
**Lab Number** : 06061276 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10832658 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**OXY VINYL DEER PARK PVC**  
 1000 TIDAL ROAD  
 DEER PARK, TX  
 US 77536  
 Contact: CHARLES LOVE  
 charles\_love@oxy.com  
 T: (281)476-2277  
 F: (281)476-2604

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)