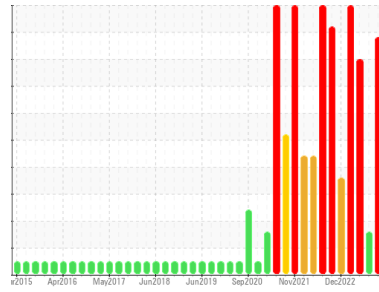


# PROBLEM SUMMARY

Sample Rating Trend

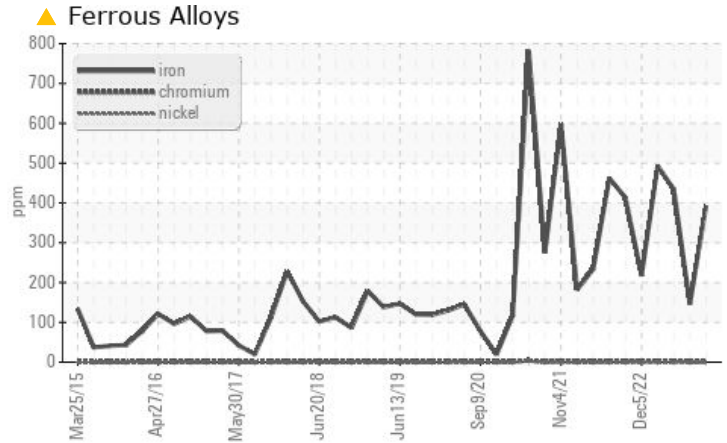
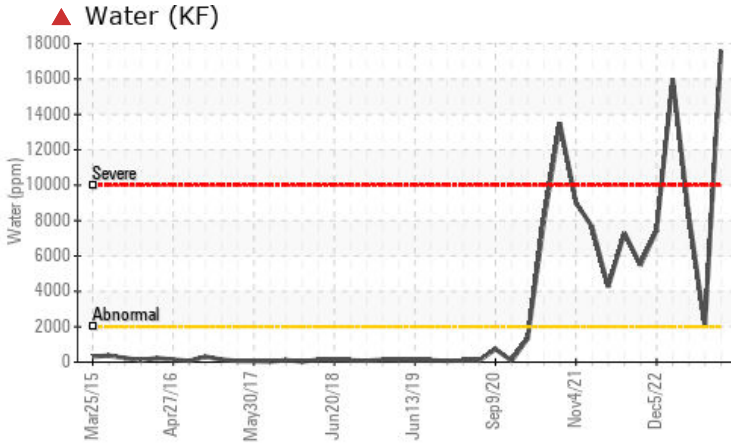


**WATER**



Machine Id  
**PHILADELPHIA CHARLIE POLY AGITATOR (C)**  
 Component  
**Gearbox**  
 Fluid  
**ROYAL PURPLE SYNERGY 90/150 (15 GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>200	▲ <b>392</b>	146	▲ 434
Water	%	ASTM D6304	>0.2	▲ <b>1.76</b>	▲ 0.201	▲ 0.835
ppm Water	ppm	ASTM D6304	>2000	▲ <b>17600</b>	▲ 2010	▲ 8350
Emulsified Water	scalar	*Visual	>0.2	▲ <b>0.2%</b>	0.2%	▲ 0.2%
Free Water	scalar	*Visual		▲ <b>&gt;10%</b>	NEG	NEG

Customer Id: OXYDEE  
 Sample No.: RP0035955  
 Lab Number: 06139323  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### WATER



#### 02 Jan 2024 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



#### 03 Oct 2023 Diag: Don Baldrige

### WEAR



[view report](#)



#### 03 Mar 2023 Diag: Don Baldrige

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

### WEAR



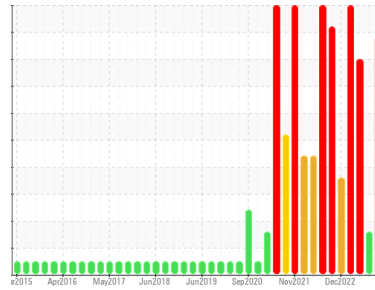
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id  
**PHILADELPHIA CHARLIE POLY AGITATOR (C)**  
 Component  
**Gearbox**  
 Fluid  
**ROYAL PURPLE SYNERGY 90/150 (15 GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### ▲ Wear

Gear wear is indicated.

### ▲ Contamination

There is a high concentration of water present in the oil. Excessive free water present.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>RP0035955</b>	RP0035834	RP0032866
Sample Date	Client Info			<b>26 Mar 2024</b>	02 Jan 2024	03 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>SEVERE</b>	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>▲ 392</b>	146	▲ 434
Chromium	ppm	ASTM D5185m	>15	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>15	<b>2</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	2
Lead	ppm	ASTM D5185m	>100	<b>2</b>	<1	2
Copper	ppm	ASTM D5185m	>200	<b>2</b>	1	3
Tin	ppm	ASTM D5185m	>25	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

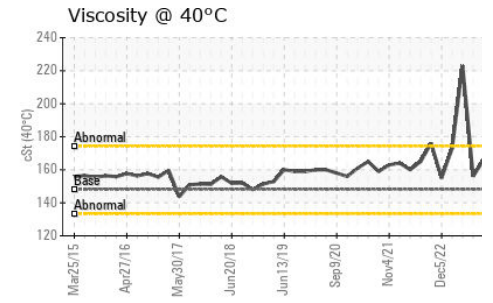
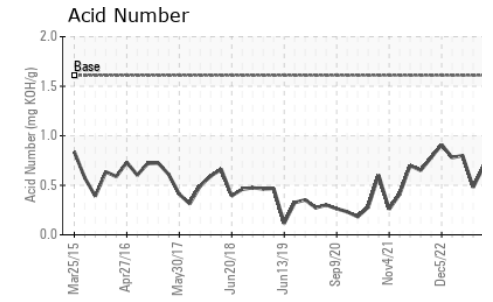
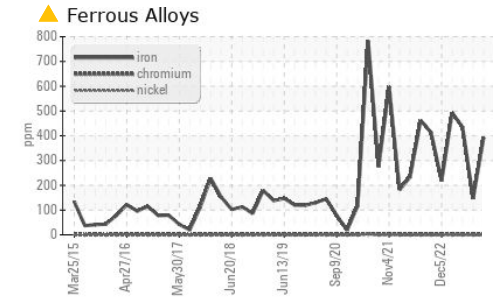
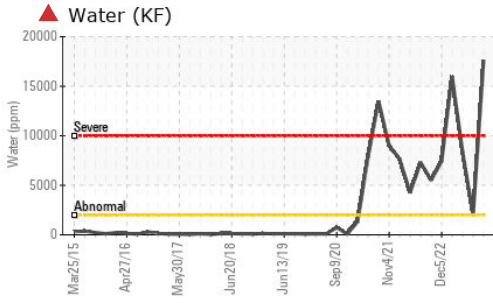
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	4
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>2</b>	0	5
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	7	6
Phosphorus	ppm	ASTM D5185m	200	<b>378</b>	341	463
Zinc	ppm	ASTM D5185m		<b>0</b>	0	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>18</b>	9	18
Sodium	ppm	ASTM D5185m		<b>1</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	2
Water	%	ASTM D6304	>0.2	<b>▲ 1.76</b>	▲ 0.201	▲ 0.835
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 17600</b>	▲ 2010	▲ 8350

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.61	<b>0.69</b>	0.48	0.80

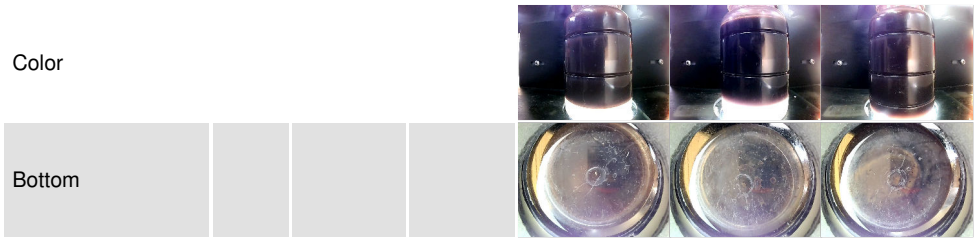
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	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	>0.2	<b>▲ 0.2%</b>	0.2%	▲ 0.2%
Free Water	scalar	*Visual		<b>▲ &gt;10%</b>	NEG	NEG

# OIL ANALYSIS REPORT

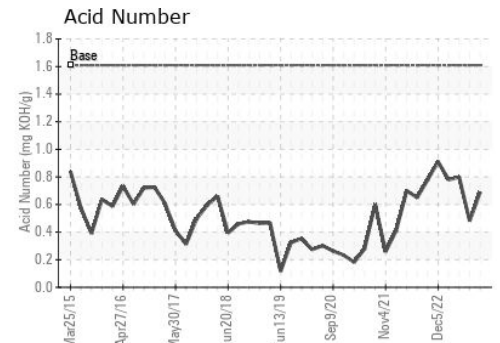
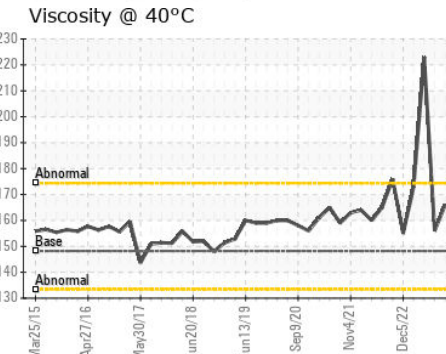
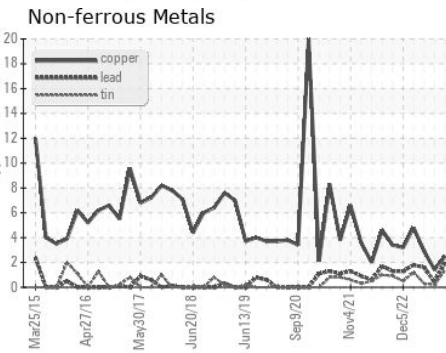
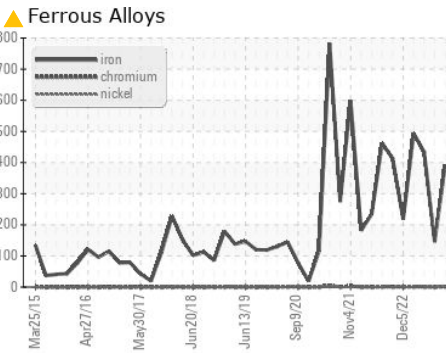


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	148.2	<b>166</b>	156	● 223

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.** : RP0035955  
**Lab Number** : 06139323  
**Unique Number** : 10964131  
**Test Package** : IND 2  
**Received** : 04 Apr 2024  
**Tested** : 05 Apr 2024  
**Diagnosed** : 06 Apr 2024 - Don Baldrige

**OXY VINYLs 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

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)