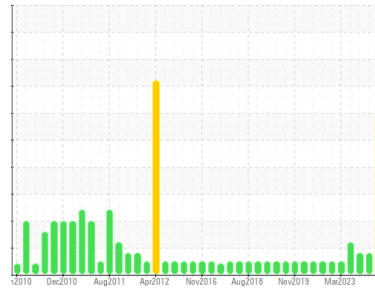




# PROBLEM SUMMARY

## Sample Rating Trend



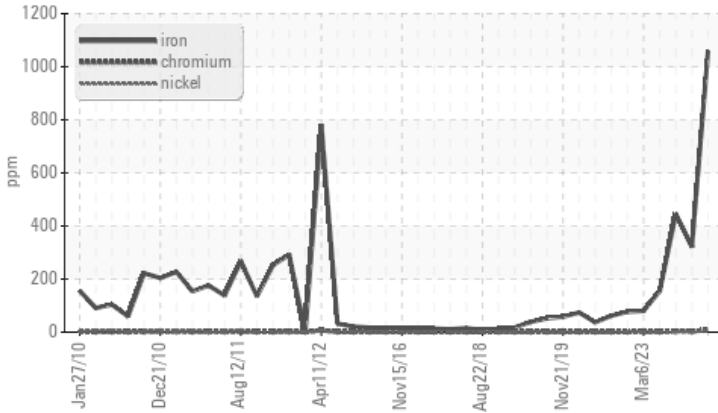
**WEAR**



Machine Id  
**FOOT-JONES G-626 SCREW PUMP 399583-1**  
 Component  
**East Speed Reducer**  
 Fluid  
**ROYAL PURPLE SYNERGY 90/150 (42 GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



## RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>150	<b>▲ 1059</b>	▲ 322	▲ 445

Customer Id: LOWBEA  
 Sample No.: RP0026776  
 Lab Number: 06150513  
 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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



### 04 Dec 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

[view report](#)



### 13 Sep 2023 Diag: Don Baldrige

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

[view report](#)



### 12 Jun 2023 Diag: Don Baldrige

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

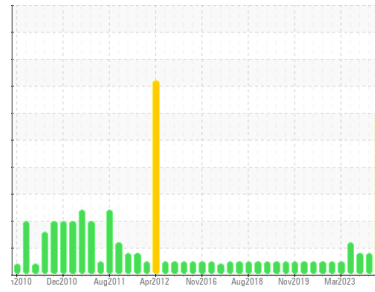
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**FOOT-JONES G-626 SCREW PUMP 399583-1**  
 Component  
**East Speed Reducer**  
 Fluid  
**ROYAL PURPLE SYNERGY 90/150 (42 GAL)**

## DIAGNOSIS

**▲ Recommendation**  
 We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**▲ Wear**  
 The iron level is severe. Gear wear is indicated.

**Contamination**  
 There is no indication of any contamination in the oil.

**Fluid Condition**  
 The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0026776</b>	RP0026773	RP0026771
Sample Date	Client Info		<b>27 Mar 2024</b>	04 Dec 2023	13 Sep 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>8016</b>	6564	5580
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>SEVERE</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>▲ 1059</b>	▲ 322	▲ 445
Chromium	ppm	ASTM D5185m >10	<b>9</b>	3	4
Nickel	ppm	ASTM D5185m >10	<b>5</b>	1	3
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>8</b>	2	4
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>3</b>	<1	<1
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	1
Barium	ppm	ASTM D5185m	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	<b>2</b>	0	0
Manganese	ppm	ASTM D5185m	<b>13</b>	4	5
Magnesium	ppm	ASTM D5185m	<b>6</b>	1	2
Calcium	ppm	ASTM D5185m	<b>172</b>	55	89
Phosphorus	ppm	ASTM D5185m 200	<b>346</b>	143	181
Zinc	ppm	ASTM D5185m	<b>25</b>	0	16

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>11</b>	7	8
Sodium	ppm	ASTM D5185m	<b>6</b>	2	<1
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	<1
Water	%	ASTM D6304 >0.1	<b>0.024</b>	0.009	0.004
ppm Water	ppm	ASTM D6304 >1000	<b>246</b>	93	48.7

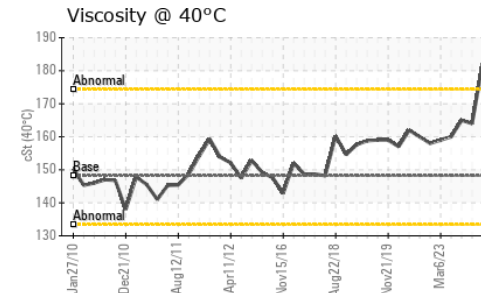
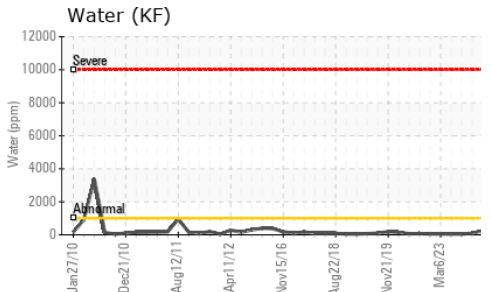
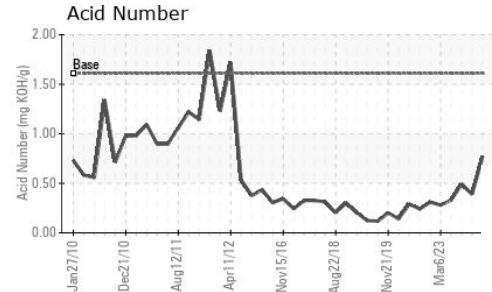
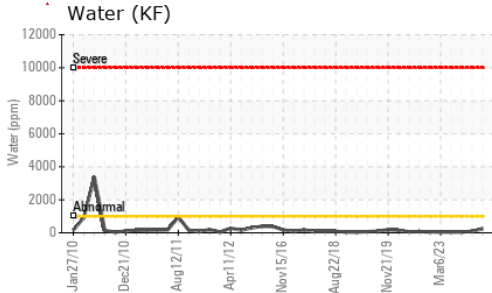
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.61	<b>0.77</b>	0.39	0.49

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>MODER</b>	MODER	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	LIGHT
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 >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

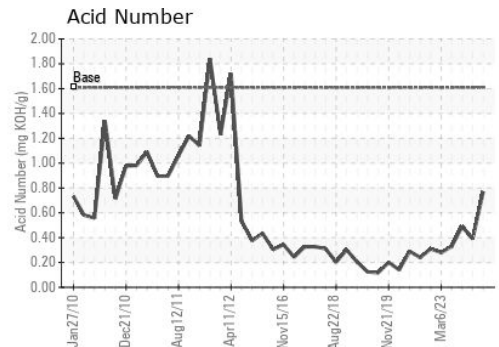
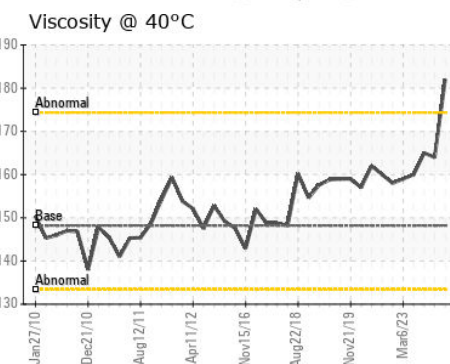
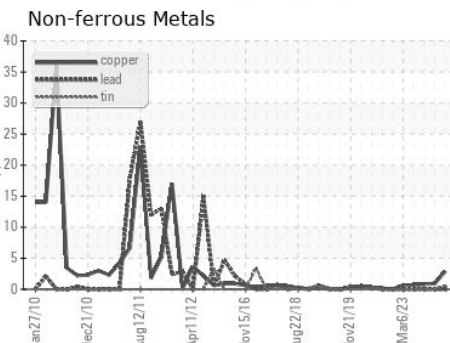
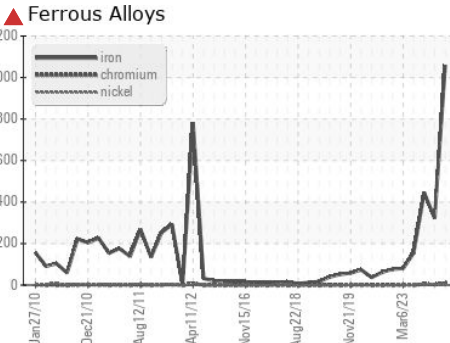
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	148.2	<b>182</b>	164	165

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0026776  
**Lab Number** : **06150513**  
**Unique Number** : 10980591  
**Test Package** : IND 2

**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Don Baldrige

**LOWER NECHES VALLEY AUTHORITY**  
 6790 BIGNER RD  
 BEAUMONT, TX  
 US 77708  
 Contact: CADE BARROW  
 cade.barrow@lnva.dst.tx.us  
 T: (409)833-6446  
 F: (409)833-5462

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)