



PERFORMANCE  
UNDER  
PRESSURE

OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

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

**RECOMMENDATION**

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

Test	UOM	Method	Limit/Abn	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
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Cleaned</b>	Cleaned	Changed
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL

**WEAR**

The iron level is severe. Gear wear is indicated.

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
White Metal	scalar	*Visual	NONE	<b>MODER</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

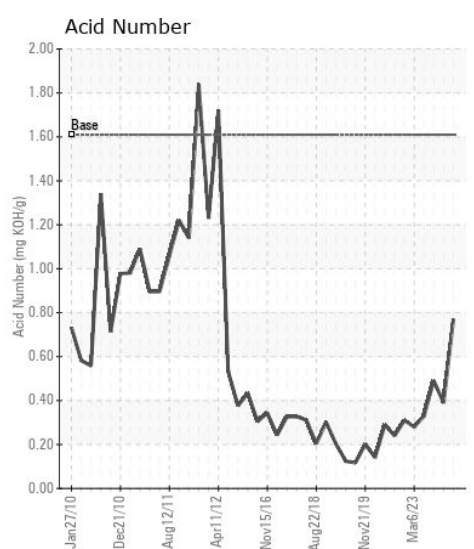
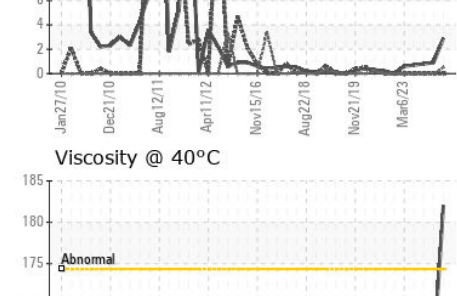
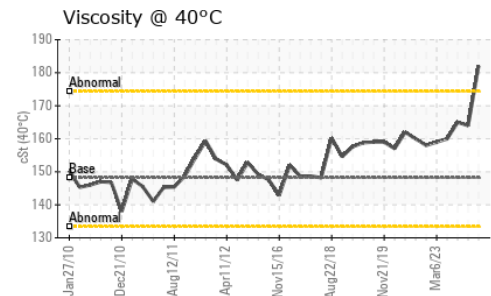
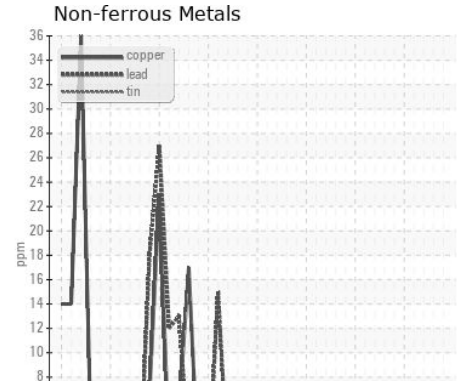
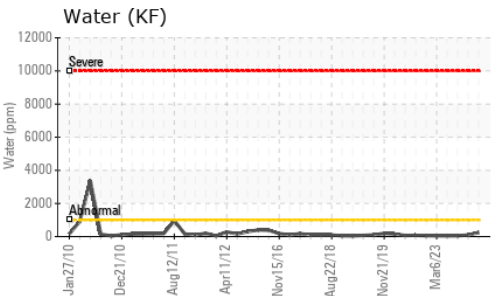
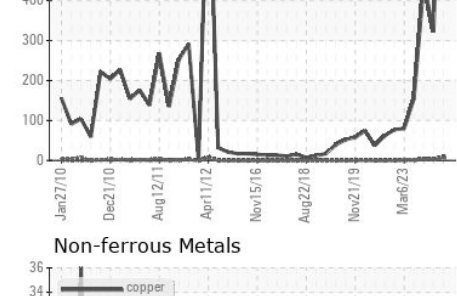
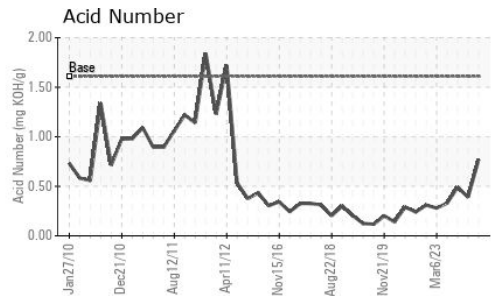
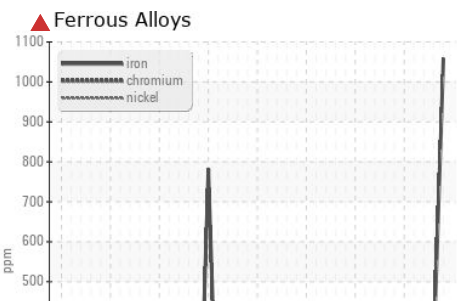
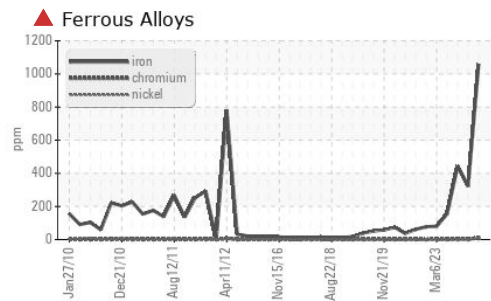
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>11</b>	7	8
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
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

**FLUID CONDITION**

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>6</b>	2	<1
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
Acid Number (AN)	mg KOH/g	ASTM D8045	1.61	<b>0.77</b>	0.39	0.49
Visc @ 40°C	cSt	ASTM D445	148.2	<b>182</b>	164	165



**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**  
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 US 77708  
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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)