



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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		RP0028309	RP0026774	RP0026776
Sample Date		Client Info		11 Jun 2024	29 Apr 2024	27 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		9204	8688	8016
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Cleaned	Cleaned	Cleaned
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

The iron level has decreased, but is still severe. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>150	▲ 525	▲ 747	▲ 1059
Chromium	ppm	ASTM D5185m	>10	4	7	9
Nickel	ppm	ASTM D5185m	>10	2	4	5
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	5	8
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	2	3
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

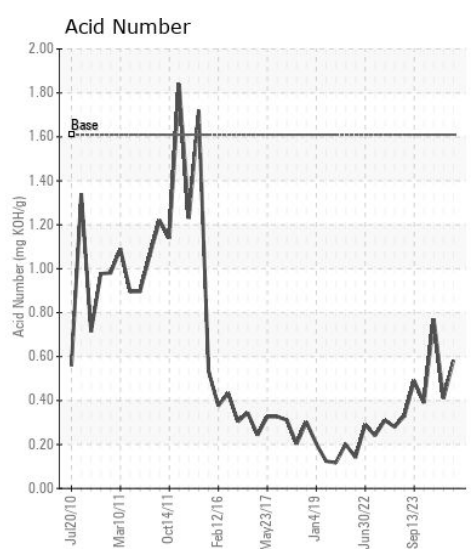
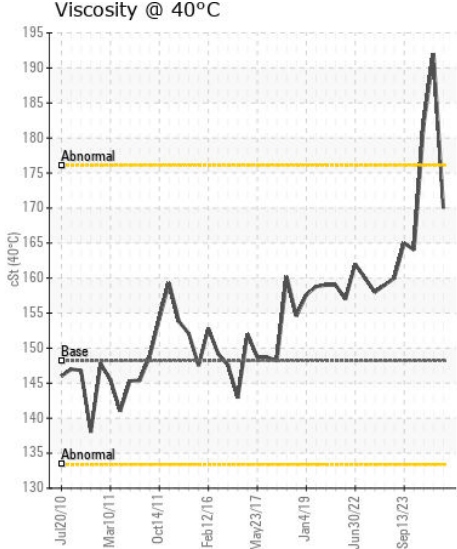
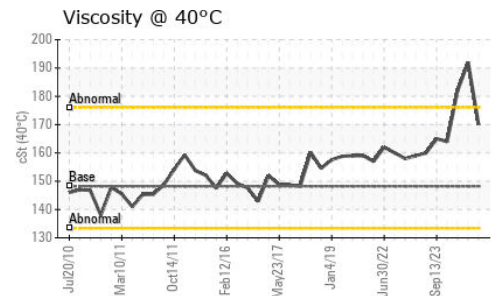
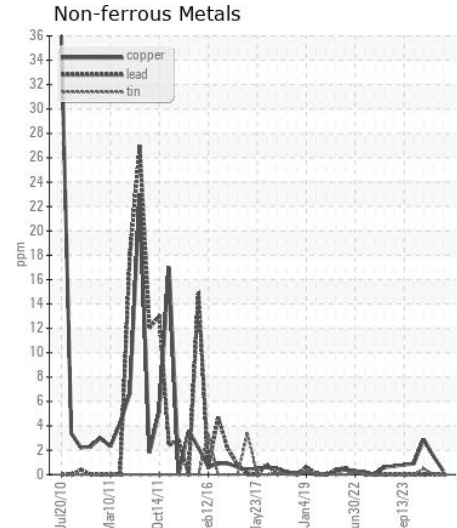
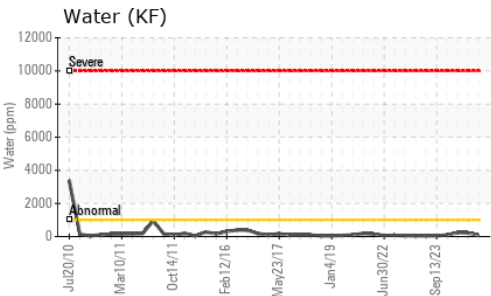
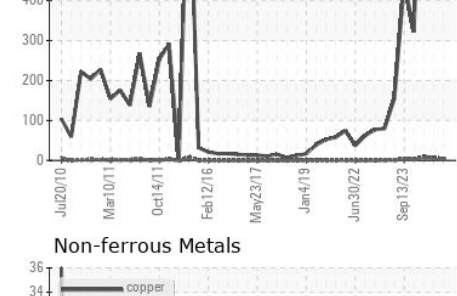
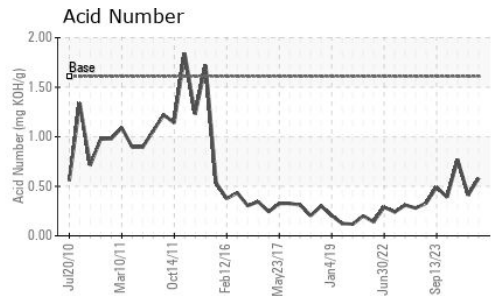
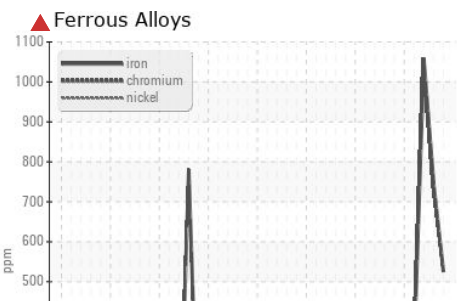
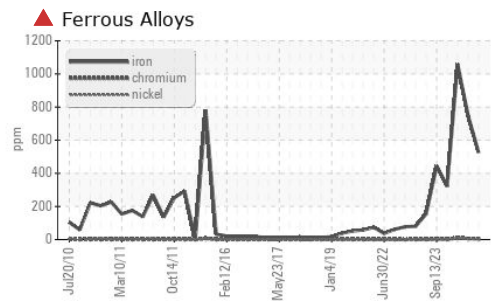
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	8	10	11
Potassium	ppm	ASTM D5185m	>20	0	2	3
Water	%	ASTM D6304	>0.1	0.007	0.021	0.024
ppm Water	ppm	ASTM D6304	>1000	77	215	246
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		1	2	6
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	2	2
Manganese	ppm	ASTM D5185m		5	7	13
Magnesium	ppm	ASTM D5185m		0	3	6
Calcium	ppm	ASTM D5185m		29	156	172
Phosphorus	ppm	ASTM D5185m	200	132	262	346
Zinc	ppm	ASTM D5185m		0	39	25
Acid Number (AN)	mg KOH/g	ASTM D8045	1.61	0.582	0.41	0.77
Visc @ 40°C	cSt	ASTM D445	148.2	170	192	182



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0028309
Lab Number : 06226336
Unique Number : 11109829
Test Package : IND 2
Received : 02 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Angela Borella

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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)