



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W52886 VEOLIA]
 Machine Id
JOHN DEERE 544 P 1DW544PAVNLZ14234
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224491	JR0147546	---
Sample Date		Client Info		03 Jul 2024	10 Oct 2022	---
Machine Age	hrs	Client Info		1943	468	---
Oil Age	hrs	Client Info		0	468	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The lead level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		17	11	---
Iron	ppm	ASTM D5185m	>500	66	73	---
Chromium	ppm	ASTM D5185m	>10	<1	1	---
Nickel	ppm	ASTM D5185m	>10	<1	1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>25	2	<1	---
Lead	ppm	ASTM D5185m	>25	▲ 57	▲ 76	---
Copper	ppm	ASTM D5185m	>100	155	▲ 136	---
Tin	ppm	ASTM D5185m	>10	<1	2	---
Vanadium	ppm	ASTM D5185m		<1	1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

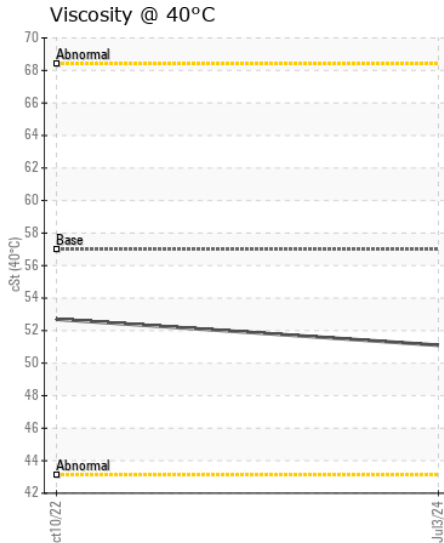
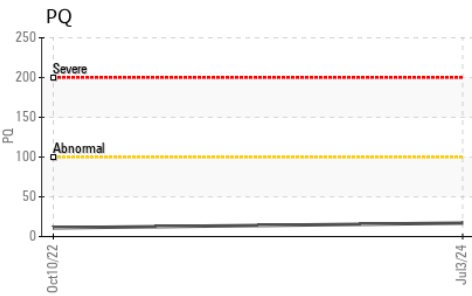
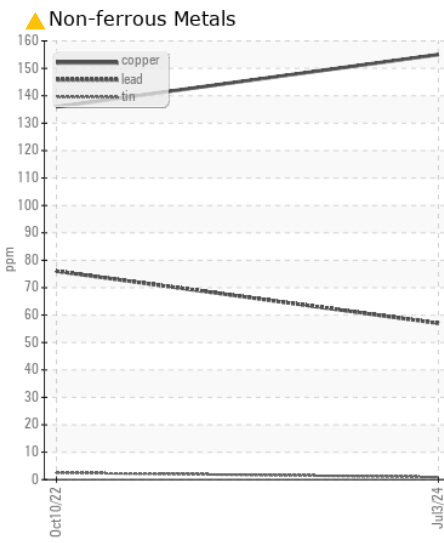
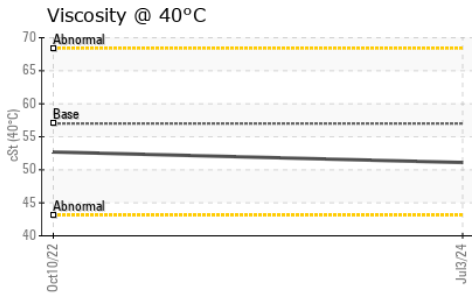
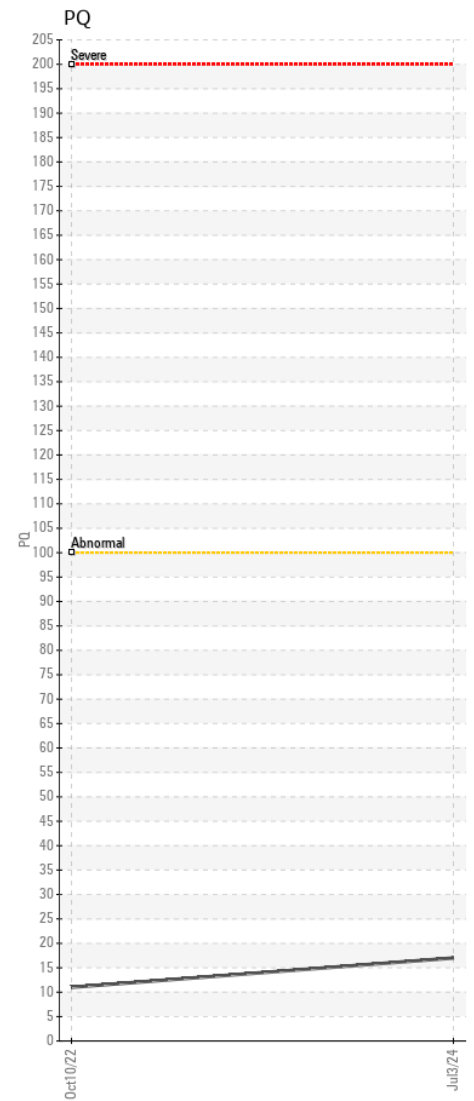
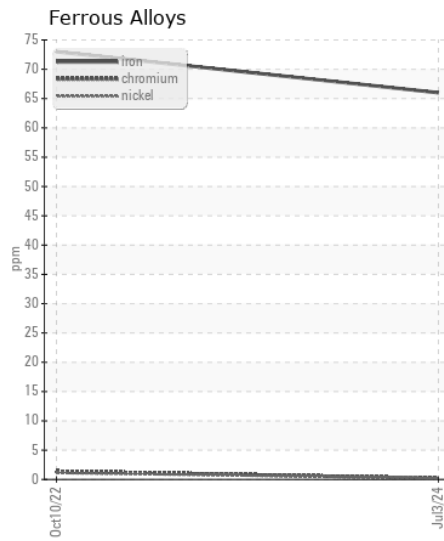
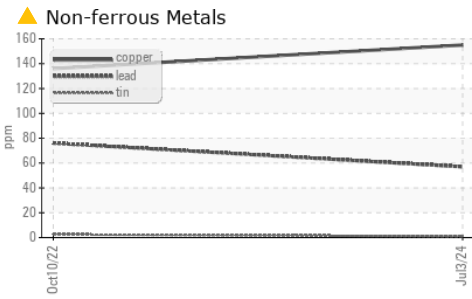
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	5	9	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	6	---
Boron	ppm	ASTM D5185m	6	2	0	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	3	---
Manganese	ppm	ASTM D5185m		2	4	---
Magnesium	ppm	ASTM D5185m	145	93	94	---
Calcium	ppm	ASTM D5185m	3570	3507	3502	---
Phosphorus	ppm	ASTM D5185m	1290	1031	1050	---
Zinc	ppm	ASTM D5185m	1640	1235	1244	---
Sulfur	ppm	ASTM D5185m		3381	4109	---
Visc @ 40°C	cSt	ASTM D445	57.0	51.1	52.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224491 **Received** : 11 Jul 2024
Lab Number : 06234062 **Tested** : 12 Jul 2024
Unique Number : 11122896 **Diagnosed** : 14 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)