



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

[W52913 SLURRY POWERS]

Machine Id
JOHN DEERE 524 P 1DW524PAENLZ14391

Component
Rear Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224576	JR0147274	---
Sample Date		Client Info		11 Jul 2024	06 Dec 2022	---
Machine Age	hrs	Client Info		2626	1265	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		61	220	---
Iron	ppm	ASTM D5185m	>500	119	553	---
Chromium	ppm	ASTM D5185m	>10	1	4	---
Nickel	ppm	ASTM D5185m	>10	1	4	---
Titanium	ppm	ASTM D5185m		1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	3	4	---
Lead	ppm	ASTM D5185m	>25	1	19	---
Copper	ppm	ASTM D5185m	>100	4	44	---
Tin	ppm	ASTM D5185m	>10	<1	4	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

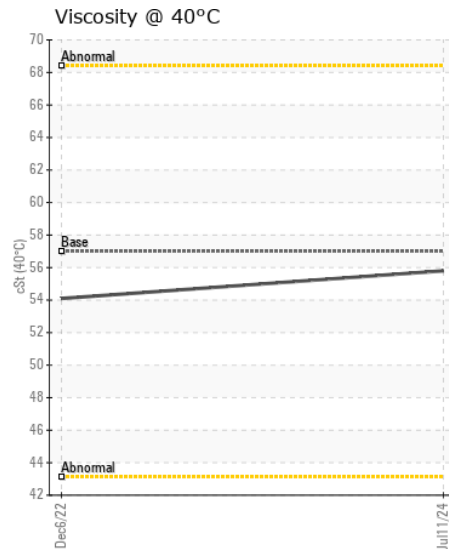
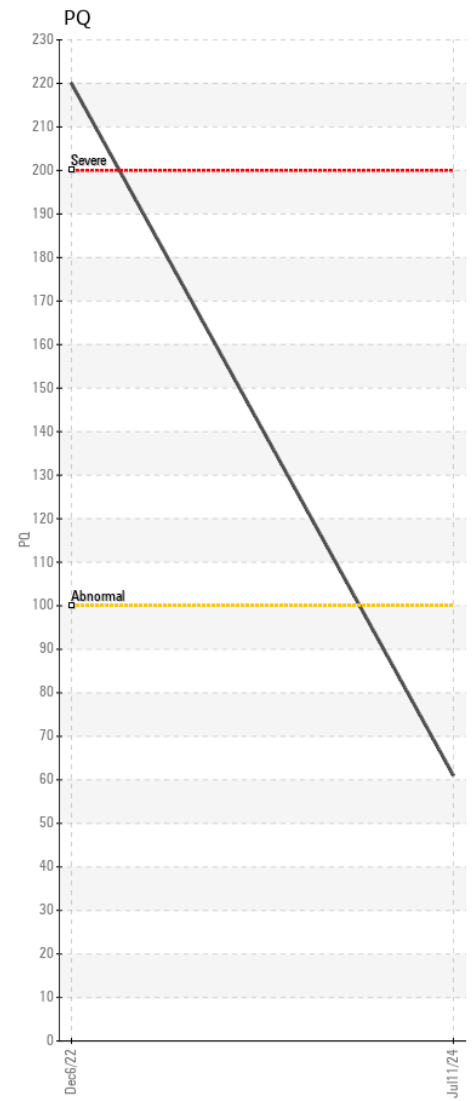
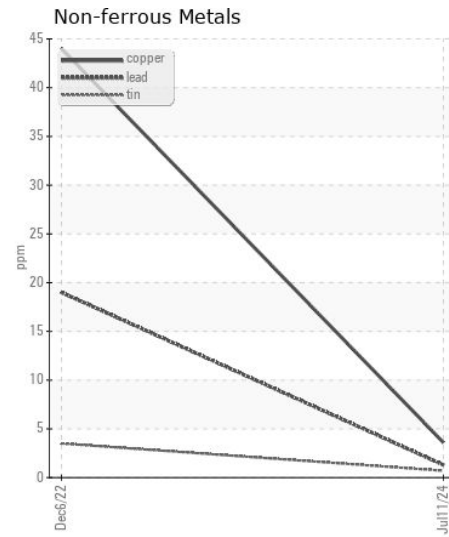
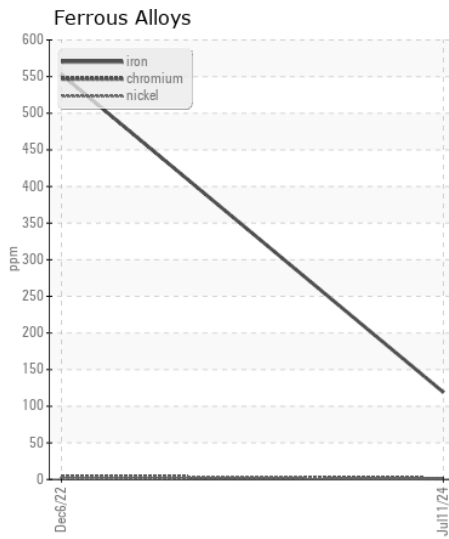
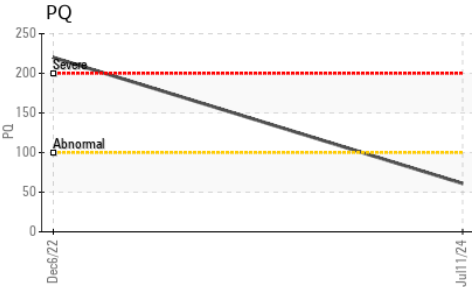
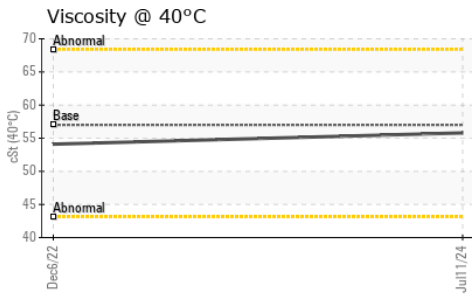
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	23	28	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	6	---
Boron	ppm	ASTM D5185m	6	0	<1	---
Barium	ppm	ASTM D5185m	0	<1	3	---
Molybdenum	ppm	ASTM D5185m	0	1	1	---
Manganese	ppm	ASTM D5185m		3	13	---
Magnesium	ppm	ASTM D5185m	145	97	99	---
Calcium	ppm	ASTM D5185m	3570	3508	3446	---
Phosphorus	ppm	ASTM D5185m	1290	933	995	---
Zinc	ppm	ASTM D5185m	1640	1247	1219	---
Sulfur	ppm	ASTM D5185m		3662	4170	---
Visc @ 40°C	cSt	ASTM D445	57.0	55.8	54.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224576 **Received** : 17 Jul 2024
Lab Number : 06239362 **Tested** : 18 Jul 2024
Unique Number : 11128196 **Diagnosed** : 18 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292

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)