



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W67070]

Machine Id
JOHN DEERE 524K 1DW524KZTJF688376

Component
Brake

Fluid
JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (2 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W67070)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215415	JR0119031	---
Sample Date		Client Info		20 May 2024	27 Apr 2022	---
Machine Age	hrs	Client Info		4544	2956	---
Oil Age	hrs	Client Info		1588	500	---
Filter Age	hrs	Client Info		0	500	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		71	39	---
Iron	ppm	ASTM D5185m	>350	147	130	---
Chromium	ppm	ASTM D5185m	>5	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		2	5	---
Silver	ppm	ASTM D5185m		1	<1	---
Aluminum	ppm	ASTM D5185m	>8	3	2	---
Lead	ppm	ASTM D5185m	>10	10	6	---
Copper	ppm	ASTM D5185m	>150	3	2	---
Tin	ppm	ASTM D5185m	>5	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

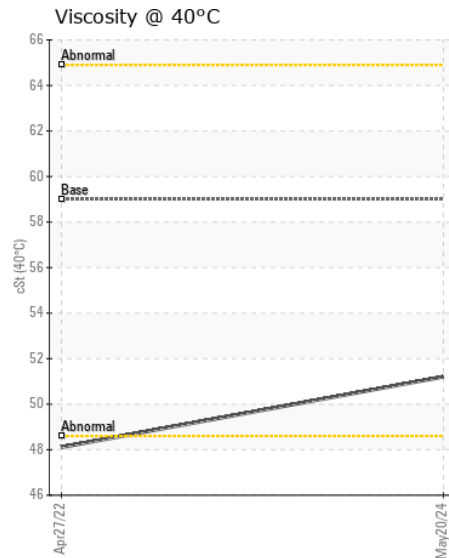
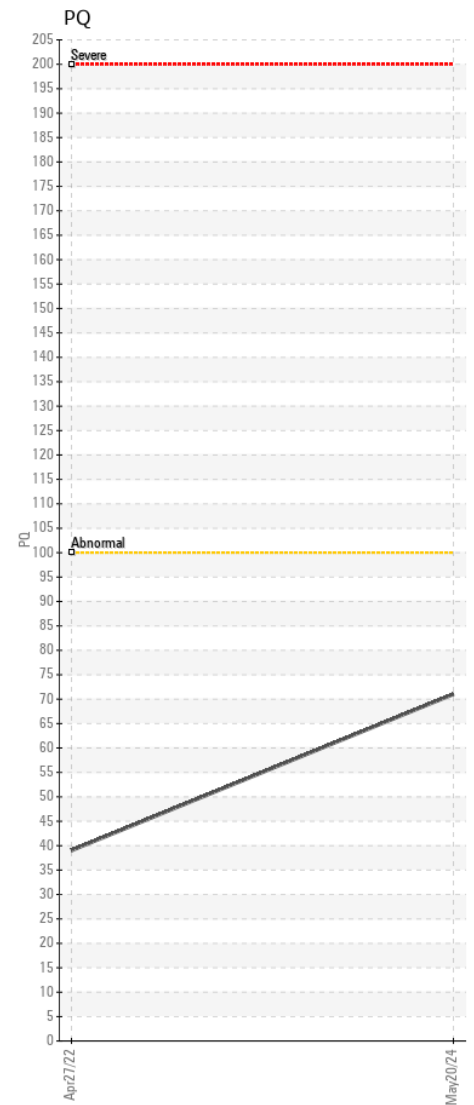
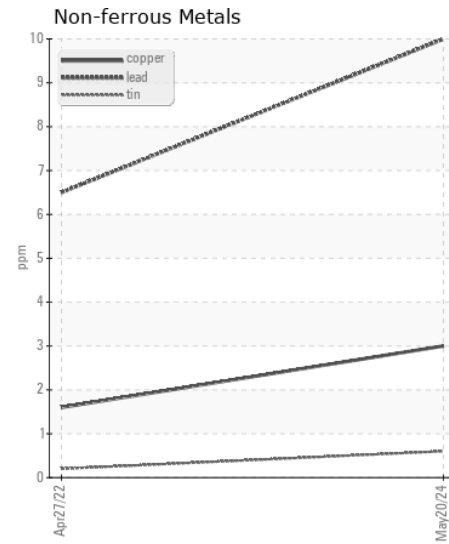
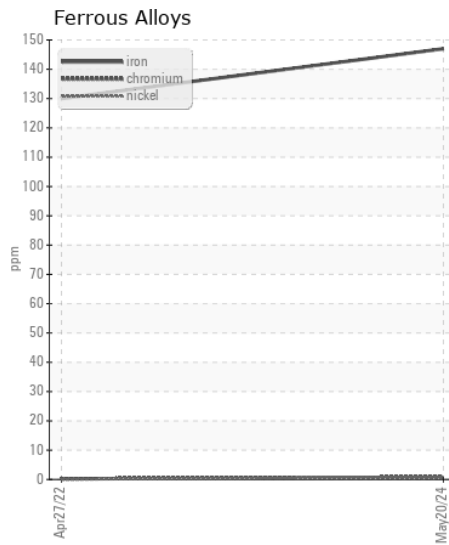
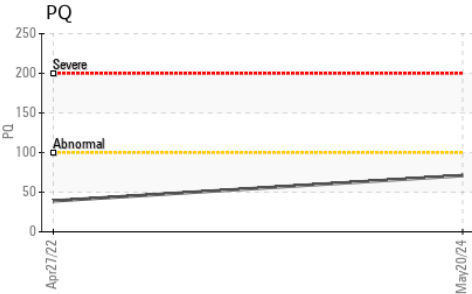
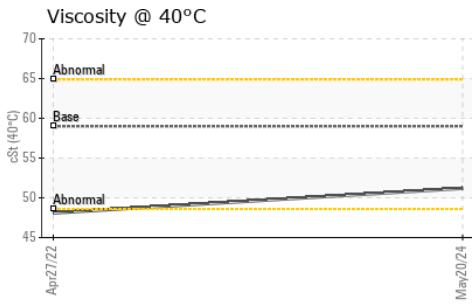
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>400	92	184	---
Potassium	ppm	ASTM D5185m	>20	6	5	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		12	18	---
Boron	ppm	ASTM D5185m		10	53	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		16	15	---
Manganese	ppm	ASTM D5185m		3	2	---
Magnesium	ppm	ASTM D5185m		74	227	---
Calcium	ppm	ASTM D5185m		2573	3180	---
Phosphorus	ppm	ASTM D5185m		998	1018	---
Zinc	ppm	ASTM D5185m		1069	1110	---
Sulfur	ppm	ASTM D5185m		3698	3120	---
Visc @ 40°C	cSt	ASTM D445	59	51.2	48.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215415 **Received** : 24 May 2024
Lab Number : 06191284 **Tested** : 29 May 2024
Unique Number : 11048036 **Diagnosed** : 29 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com

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)

T: (704)597-0211
 F: (704)596-6198