



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 544K 1DW544KPPBD637550
 Component
Rear Axle
 Fluid
JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (28 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218623	JR0122728	---
Sample Date		Client Info		19 Jun 2024	01 Apr 2022	---
Machine Age	hrs	Client Info		11823	9803	---
Oil Age	hrs	Client Info		2020	9803	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	None	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		64	172	---
Iron	ppm	ASTM D5185m	>750	314	534	---
Chromium	ppm	ASTM D5185m	>11	2	3	---
Nickel	ppm	ASTM D5185m	>10	2	3	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>21	4	7	---
Lead	ppm	ASTM D5185m	>49	2	1	---
Copper	ppm	ASTM D5185m	>101	12	18	---
Tin	ppm	ASTM D5185m	>10	1	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

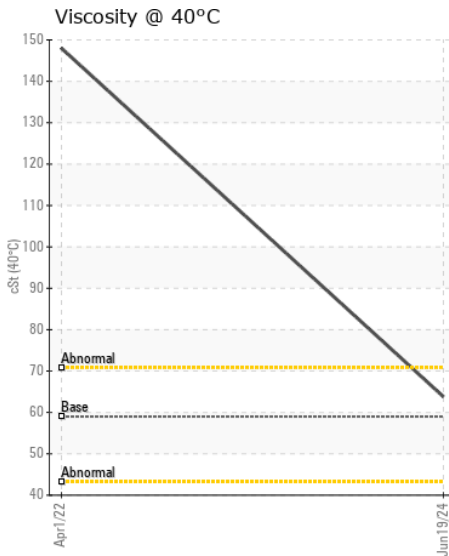
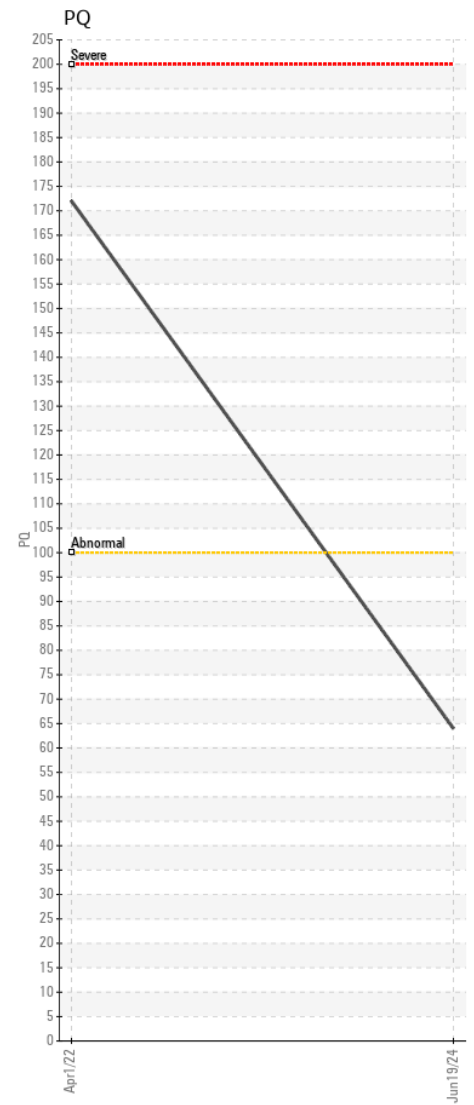
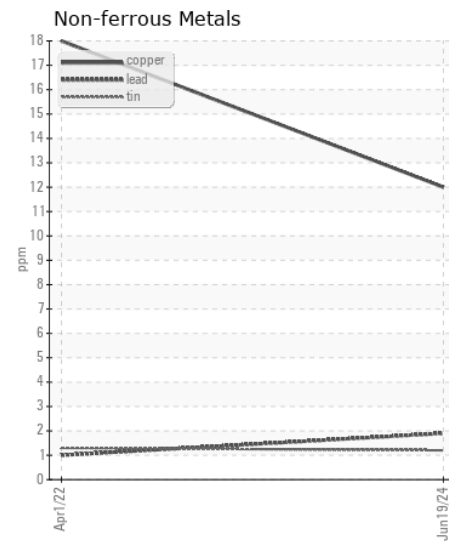
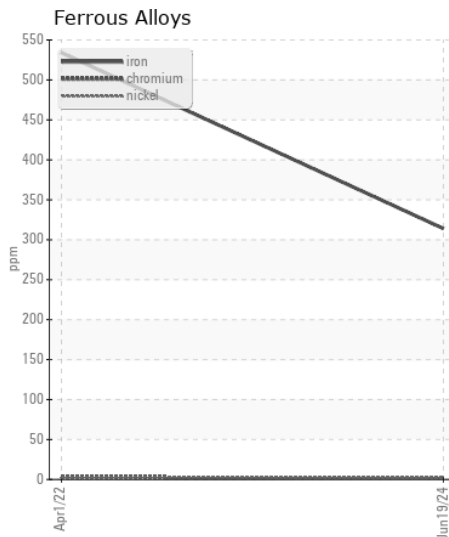
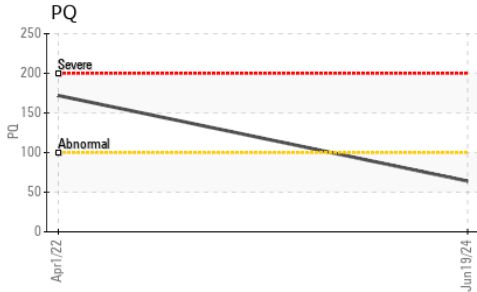
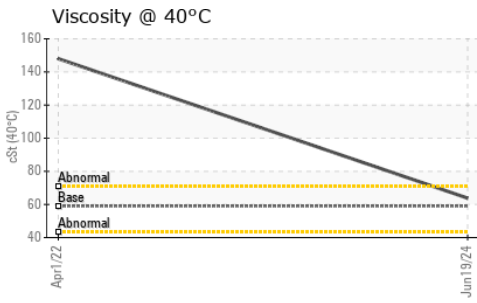
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>31	27	41	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Water		WC Method	>0.1	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	>0.1	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	>51	0	1	---
Boron	ppm	ASTM D5185m		8	8	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		2	3	---
Manganese	ppm	ASTM D5185m		3	4	---
Magnesium	ppm	ASTM D5185m		85	32	---
Calcium	ppm	ASTM D5185m		3368	3171	---
Phosphorus	ppm	ASTM D5185m		1016	850	---
Zinc	ppm	ASTM D5185m		1178	1059	---
Sulfur	ppm	ASTM D5185m		5256	9783	---
Visc @ 40°C	cSt	ASTM D445	59	63.8	148	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0218623

Lab Number : 06218562

Unique Number : 11096759

Test Package : CONST (Additional Tests: PQ)

Received : 24 Jun 2024

Tested : 25 Jun 2024

Diagnosed : 25 Jun 2024 - Wes Davis

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

US 20111

Contact: TECHNICIAN ACCOUNT

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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)