



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644 P 1DW644PATPLX19041
Component
Front Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (27 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0103229	JR0108945	---
Sample Date		Client Info		17 Mar 2024	16 Feb 2024	---
Machine Age	hrs	Client Info		441	338	---
Oil Age	hrs	Client Info		441	338	---
Filter Age	hrs	Client Info		0	338	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		24	29	---
Iron	ppm	ASTM D5185m	>750	62	51	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	2	2	---
Lead	ppm	ASTM D5185m	>49	23	24	---
Copper	ppm	ASTM D5185m	>101	102	48	---
Tin	ppm	ASTM D5185m	>10	1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

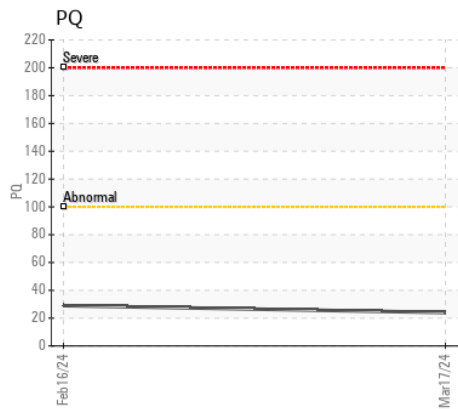
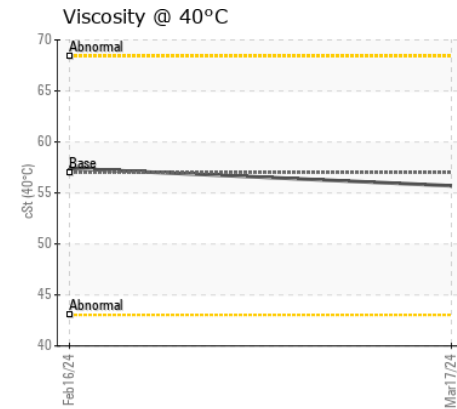
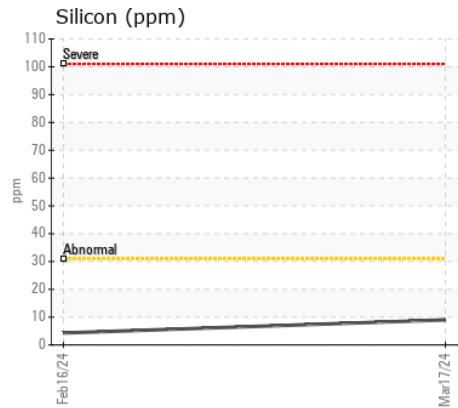
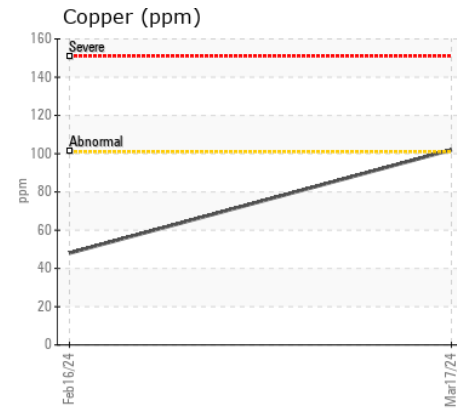
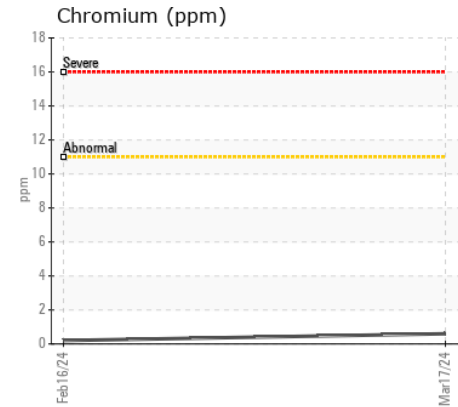
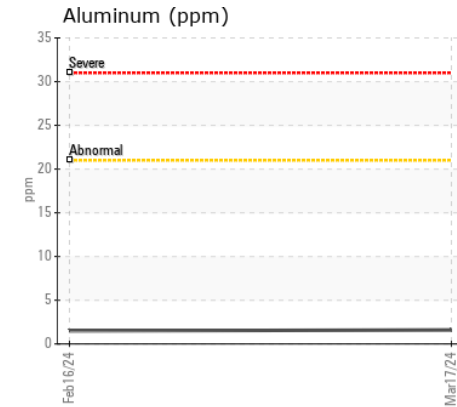
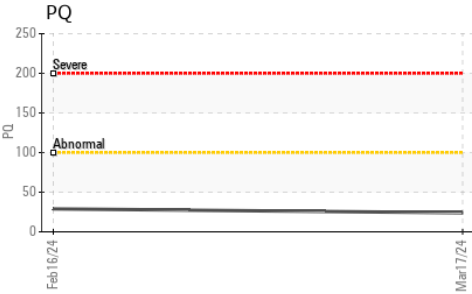
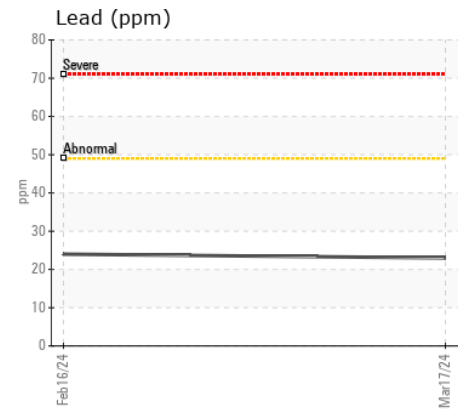
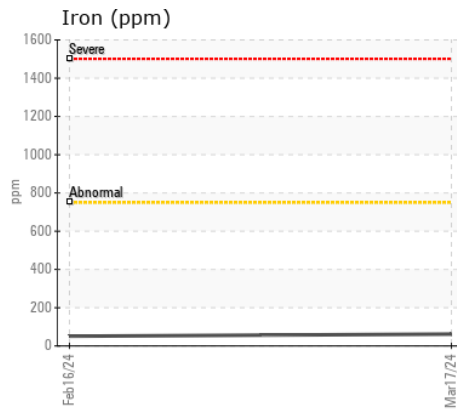
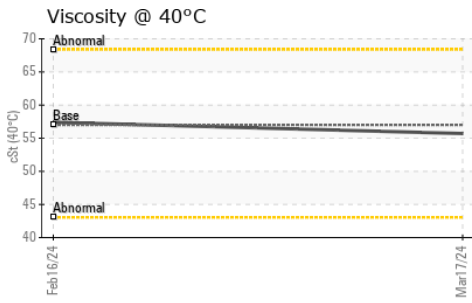
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	9	4	---
Potassium	ppm	ASTM D5185m	>20	5	4	---
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.

Sodium	ppm	ASTM D5185m	>51	7	2	---
Boron	ppm	ASTM D5185m	6	5	3	---
Barium	ppm	ASTM D5185m	0	3	15	---
Molybdenum	ppm	ASTM D5185m	0	<1	<1	---
Manganese	ppm	ASTM D5185m		4	3	---
Magnesium	ppm	ASTM D5185m	145	97	100	---
Calcium	ppm	ASTM D5185m	3570	3472	3341	---
Phosphorus	ppm	ASTM D5185m	1290	1028	1040	---
Zinc	ppm	ASTM D5185m	1640	1224	1205	---
Sulfur	ppm	ASTM D5185m		4438	4527	---
Visc @ 40°C	cSt	ASTM D445	57.0	55.7	57.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0103229 **Received** : 19 Mar 2024
Lab Number : 06122705 **Tested** : 20 Mar 2024
Unique Number : 10936856 **Diagnosed** : 21 Mar 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

JRE - GREENVILLE
 3604 HIGHWAY 264 E
 GREENVILLE, NC
 US 27834-5800

Contact: GREENVILLE SHOP
 christopher.martin@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:
F: