



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W9027]
Machine Id
JOHN DEERE 644 P 1DW644PALPLX20815
Component
Front Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (23 QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W9027)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196930	---	---
Sample Date		Client Info		17 Jun 2024	---	---
Machine Age	hrs	Client Info		764	---	---
Oil Age	hrs	Client Info		764	---	---
Filter Age	hrs	Client Info		764	---	---
Oil Changed		Client Info		Not Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

PQ		ASTM D8184		21	---	---
Iron	ppm	ASTM D5185m	>750	102	---	---
Chromium	ppm	ASTM D5185m	>11	<1	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>21	0	---	---
Lead	ppm	ASTM D5185m	>49	67	---	---
Copper	ppm	ASTM D5185m	>101	229	---	---
Tin	ppm	ASTM D5185m	>10	8	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

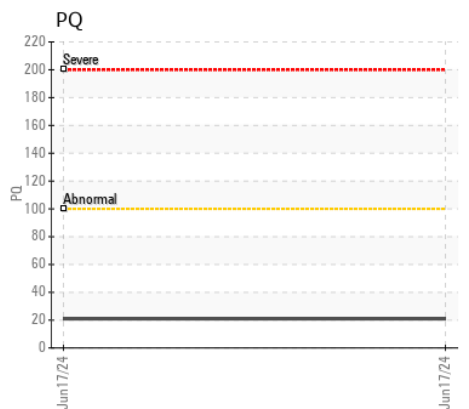
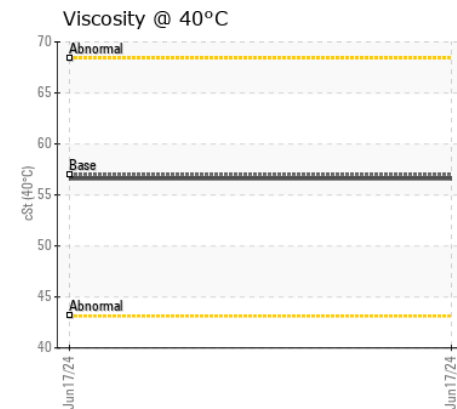
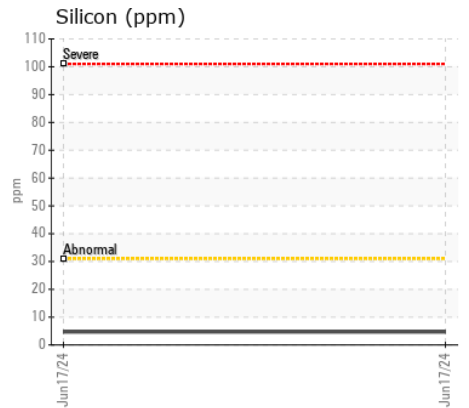
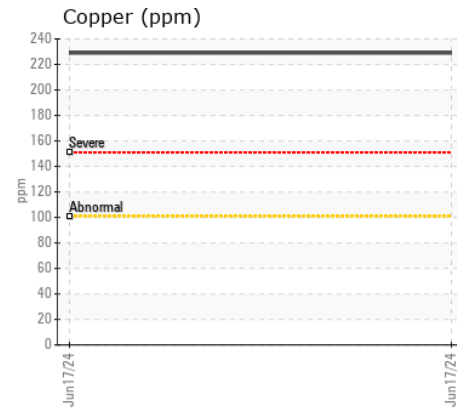
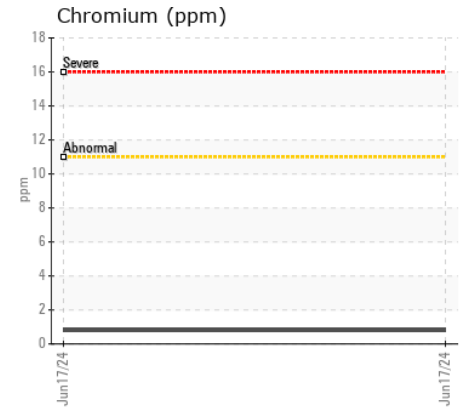
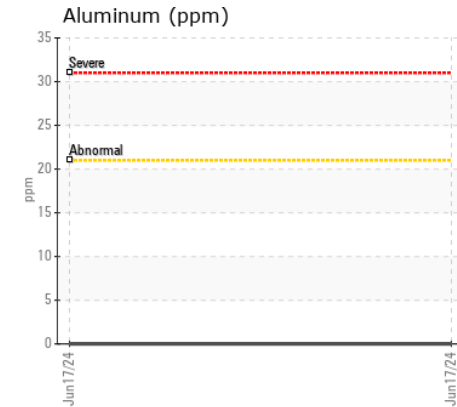
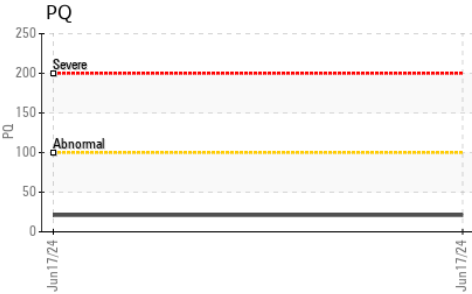
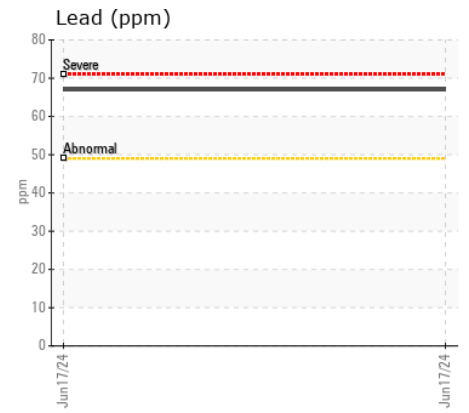
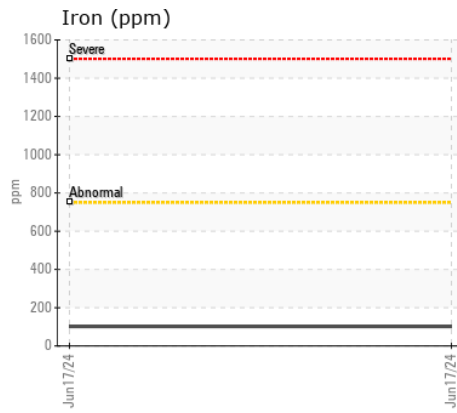
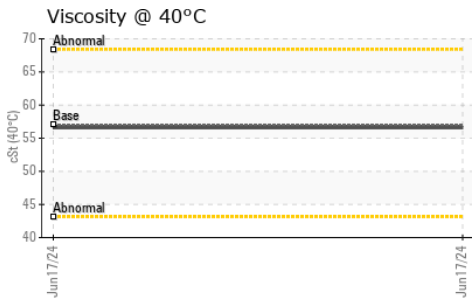
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	5	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>0.1	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	9	---	---
Boron	ppm	ASTM D5185m	6	10	---	---
Barium	ppm	ASTM D5185m	0	5	---	---
Molybdenum	ppm	ASTM D5185m	0	<1	---	---
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m	145	109	---	---
Calcium	ppm	ASTM D5185m	3570	3350	---	---
Phosphorus	ppm	ASTM D5185m	1290	1054	---	---
Zinc	ppm	ASTM D5185m	1640	1193	---	---
Sulfur	ppm	ASTM D5185m		4695	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	56.6	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196930 **Received** : 20 Jun 2024
Lab Number : 06215990 **Tested** : 22 Jun 2024
Unique Number : 11088854 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

CARLTON'S BACKHOE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: LEO

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)547-0211

F: