



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Area
[W8456]
 Machine Id
JOHN DEERE 200D C185762 (S/N 1FF200DXPBD512817)
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. (Customer Sample Comment: W8456)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197160	JR0097849	---
Sample Date		Client Info		12 Feb 2024	19 Apr 2022	---
Machine Age	hrs	Client Info		6753	0	---
Oil Age	hrs	Client Info		6753	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	14	17	---
Iron	ppm	ASTM D5185m	>32	6	6	---
Chromium	ppm	ASTM D5185m	>9	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>9	2	2	---
Lead	ppm	ASTM D5185m	>28	0	<1	---
Copper	ppm	ASTM D5185m	>50	3	2	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

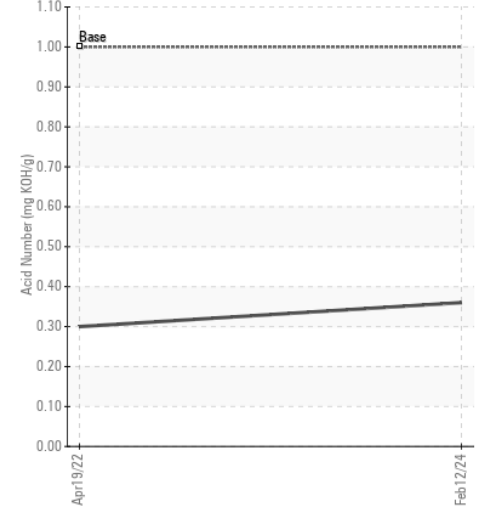
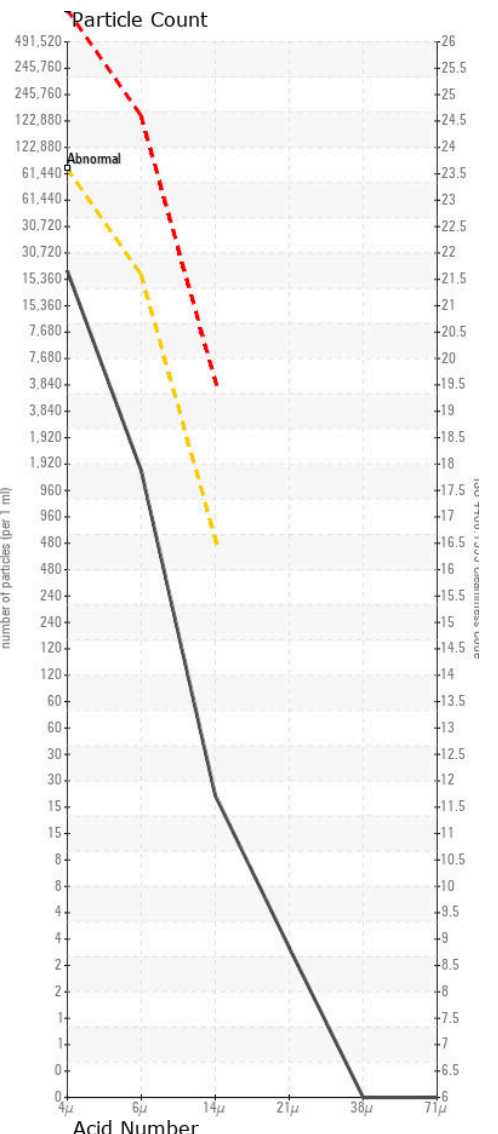
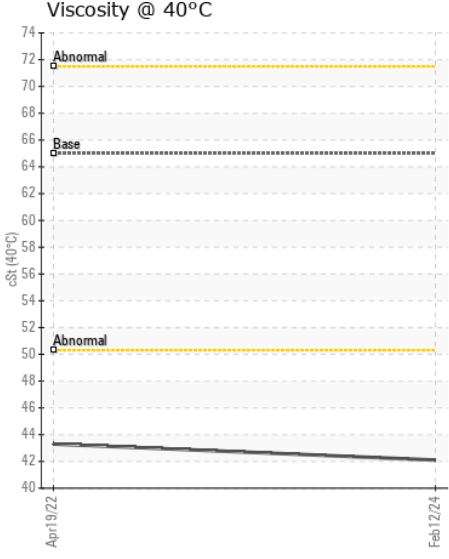
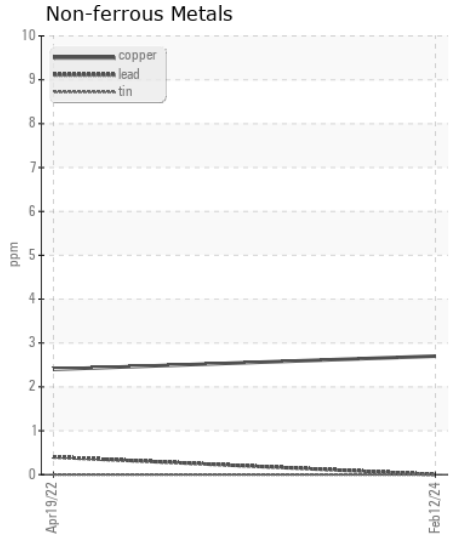
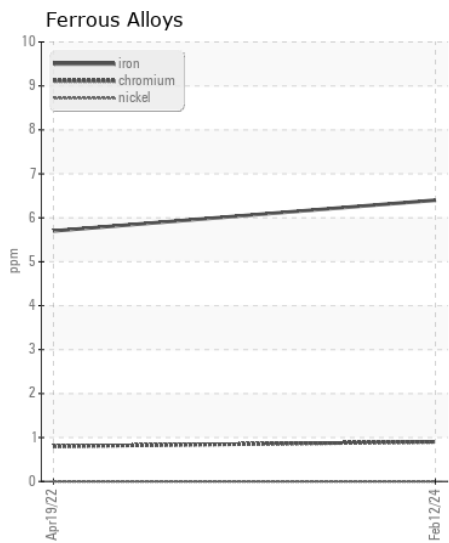
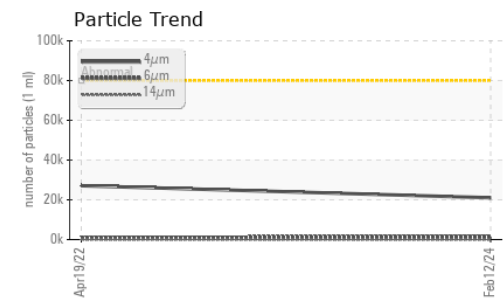
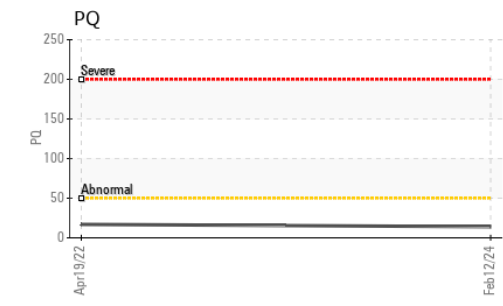
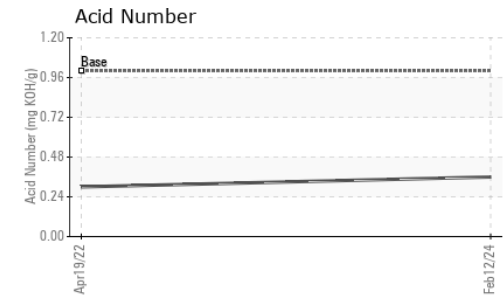
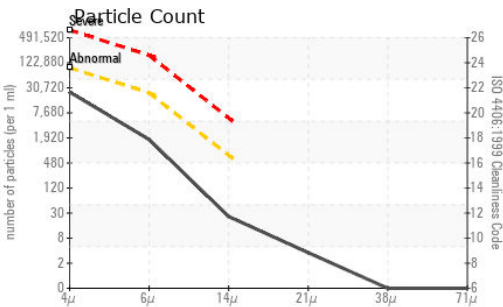
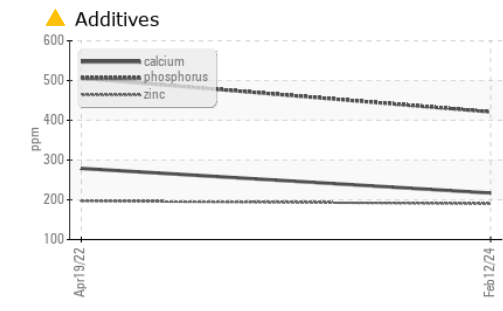
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	9	8	---
Potassium	ppm	ASTM D5185m	>20	2	5	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	21032	27104	---
Particles >6µm		ASTM D7647	>20000	1541	927	---
Particles >14µm		ASTM D7647	>640	22	44	---
Particles >21µm		ASTM D7647	>160	3	15	---
Particles >38µm		ASTM D7647	>40	0	1	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/18/12	22/17/13	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	VLITE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---

FLUID CONDITION

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m	>21	2	0	---
Boron	ppm	ASTM D5185m		14	22	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		5	8	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		22	28	---
Calcium	ppm	ASTM D5185m	87	217	279	---
Phosphorus	ppm	ASTM D5185m	727	421	506	---
Zinc	ppm	ASTM D5185m	900	▲ 190	▲ 197	---
Sulfur	ppm	ASTM D5185m	1500	1034	940	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.36	0.30	---
Visc @ 40°C	cSt	ASTM D445	65	42.1	43.3	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0197160 **Received** : 13 Feb 2024
Lab Number : 06087174 **Tested** : 14 Feb 2024
Unique Number : 10874619 **Diagnosed** : 14 Feb 2024 - Angela Borella
Test Package : MOBCE (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
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 HOPE MILLS, NC
 US 28348
 Contact: FAYETTEVILLE SHOP
 stephen.mullis@jamesriverequipment.com; panastasio@wearcheck.com
 T:
 F:

Certificate L2367
 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)