



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[GARDENER INC]
 Machine Id
JOHN DEERE 750J 17075CJXABD212960
 Component
Hydraulic System
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR06196591	JRMC358573	---
Sample Date		Client Info		24 May 2024	07 Dec 2012	---
Machine Age	hrs	Client Info		4880	108	---
Oil Age	hrs	Client Info		0	108	---
Filter Age	hrs	Client Info		0	108	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The iron level is abnormal. The chromium level is abnormal.

PQ		ASTM D8184	>50	33	6.0	---
Iron	ppm	ASTM D5185m	>23	▲ 33	2	---
Chromium	ppm	ASTM D5185m	>9	▲ 10	<1	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>9	8	1	---
Lead	ppm	ASTM D5185m	>28	2	0	---
Copper	ppm	ASTM D5185m	>51	33	<1	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

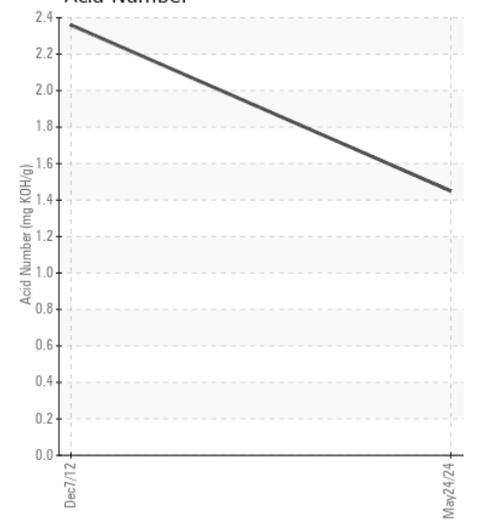
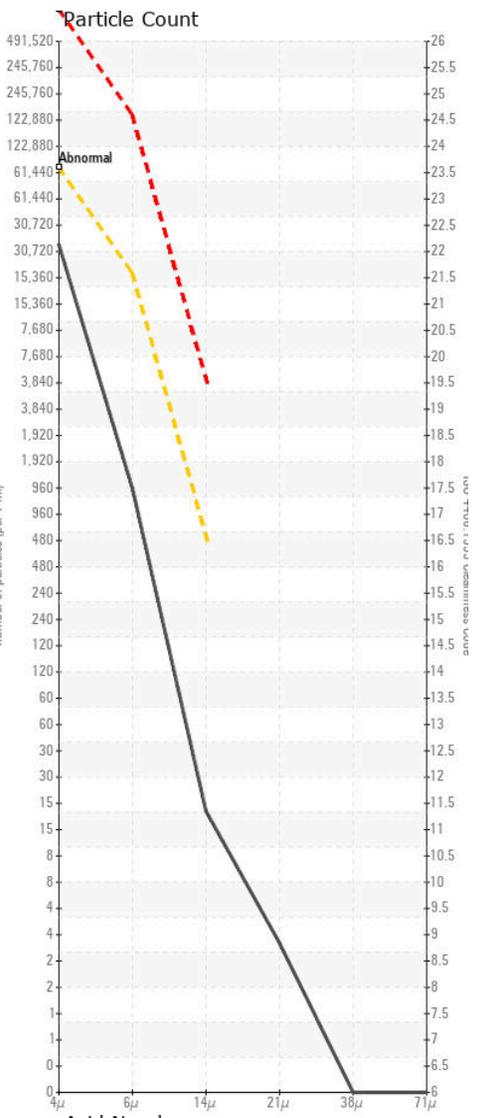
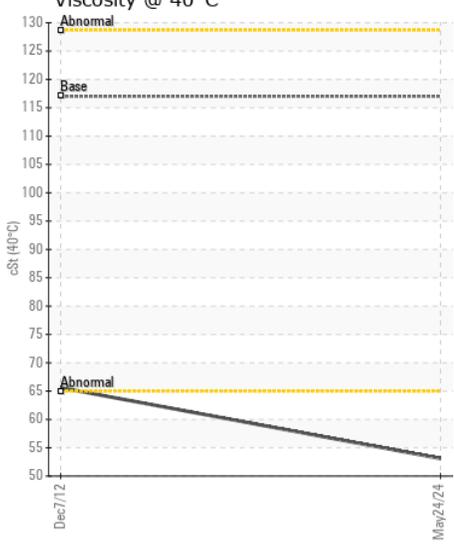
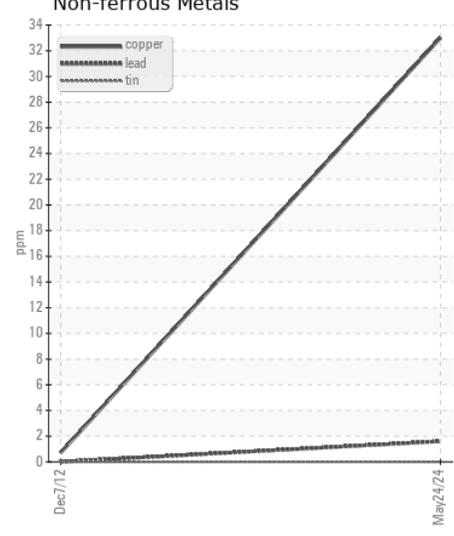
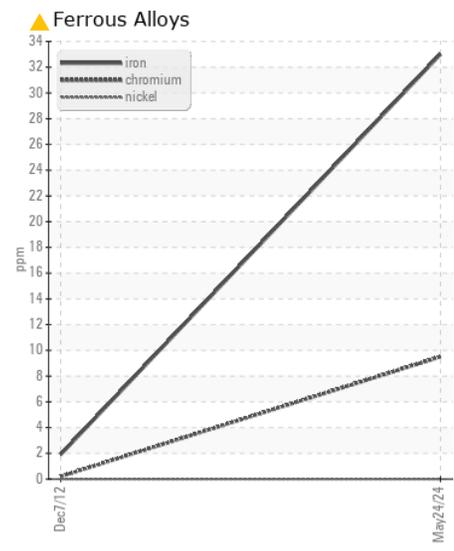
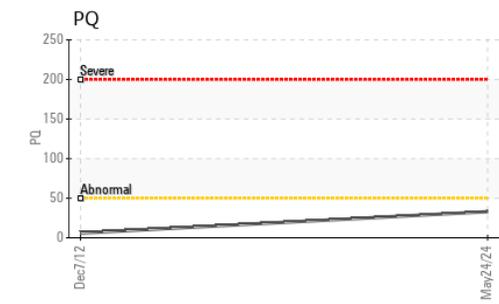
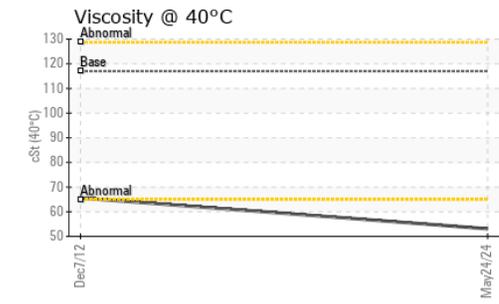
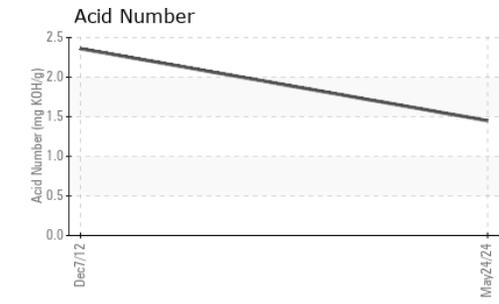
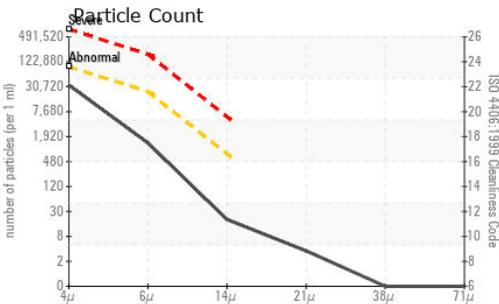
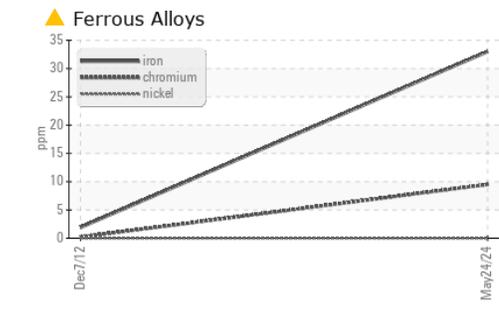
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	20	6	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	29143	428	---
Particles >6µm		ASTM D7647	>20000	1182	233	---
Particles >14µm		ASTM D7647	>640	17	39	---
Particles >21µm		ASTM D7647	>160	3	13	---
Particles >38µm		ASTM D7647	>40	0	2	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/17/11	16/15/12	---
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	>0.075	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	3	2	---
Boron	ppm	ASTM D5185m		21	32	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		18	27	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		244	342	---
Calcium	ppm	ASTM D5185m		2578	2157	---
Phosphorus	ppm	ASTM D5185m		979	1118	---
Zinc	ppm	ASTM D5185m		1174	1193	---
Sulfur	ppm	ASTM D5185m		3756	3385	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.45	2.36	---
Visc @ 40°C	cSt	ASTM D445	117	53.1	65.6	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR06196591 **Received** : 31 May 2024
Lab Number : 06196591 **Tested** : 03 Jun 2024
Unique Number : 11058714 **Diagnosed** : 03 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)