



Machine Id
JOHN DEERE 250G 1FF250G XKJF610621

Component
Rear Right Final Drive

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203527	JR0171224	JR0113775
Sample Date		Client Info		13 Feb 2024	29 Jun 2023	22 Dec 2021
Machine Age	hrs	Client Info		7095	6507	4267
Oil Age	hrs	Client Info		3798	3743	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	NORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	520	32	29
Iron	ppm	ASTM D5185m	>750	▲ 2534	54	69
Chromium	ppm	ASTM D5185m	>9	▲ 18	<1	<1
Nickel	ppm	ASTM D5185m	>10	4	<1	0
Titanium	ppm	ASTM D5185m		15	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	▲ 312	0	8
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>40	6	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

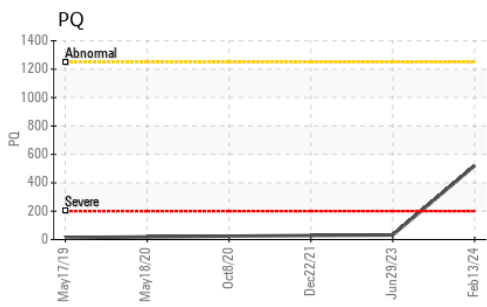
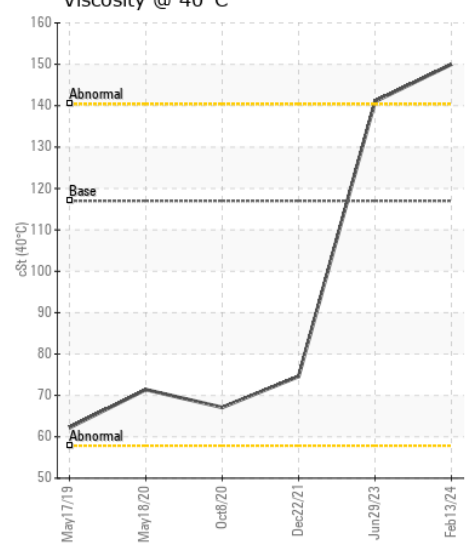
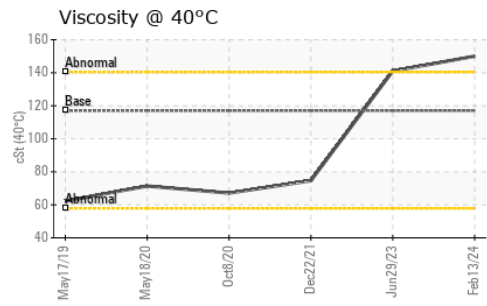
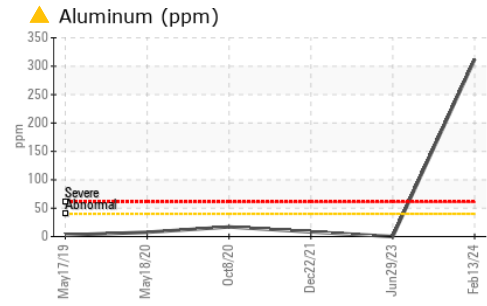
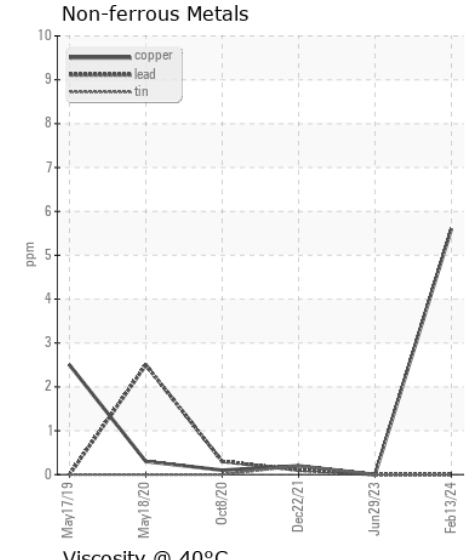
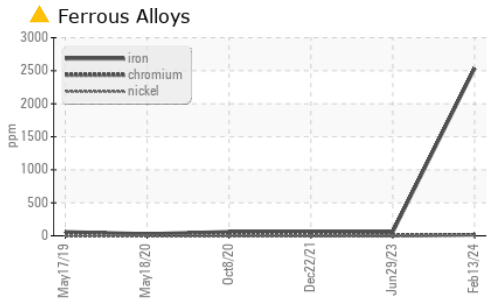
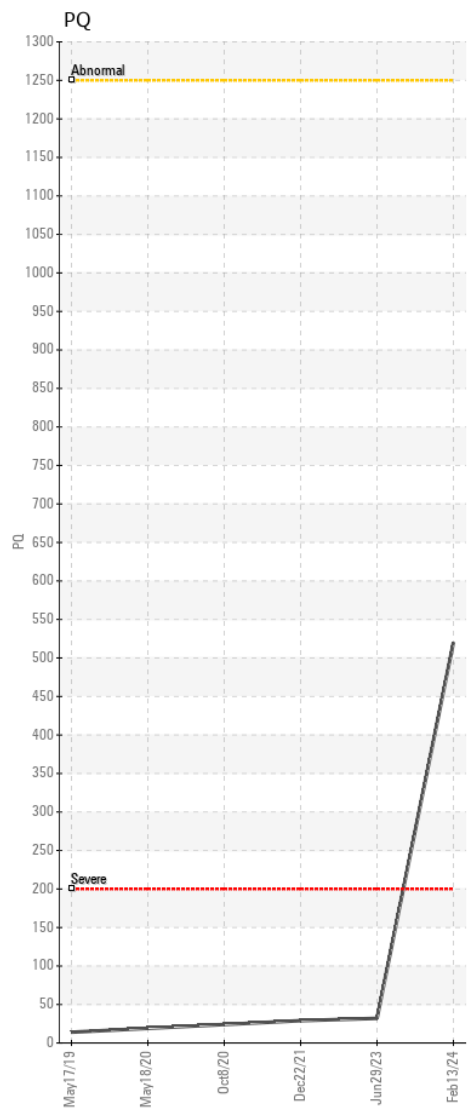
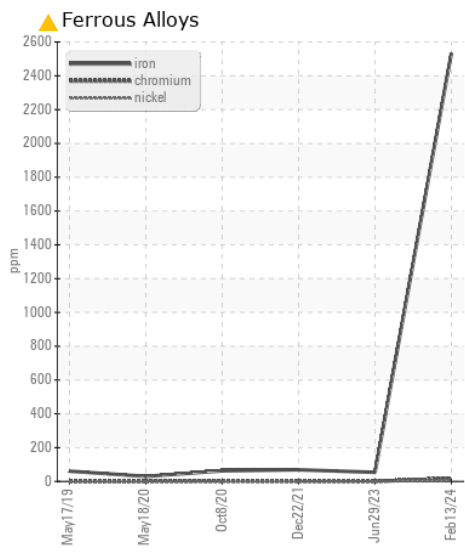
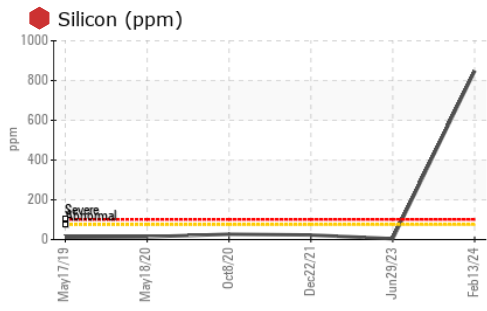
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	◆ 848	4	23
Potassium	ppm	ASTM D5185m	>20	58	<1	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG

FLUID CONDITION

Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	9	0	2
Boron	ppm	ASTM D5185m		142	169	269
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m		2	▲ 0	254
Manganese	ppm	ASTM D5185m		18	<1	<1
Magnesium	ppm	ASTM D5185m		15	▲ 0	784
Calcium	ppm	ASTM D5185m		25	▲ 1	1473
Phosphorus	ppm	ASTM D5185m		1056	858	962
Zinc	ppm	ASTM D5185m		0	▲ 0	1070
Sulfur	ppm	ASTM D5185m		26529	▲ 20994	3145
Visc @ 40°C	cSt	ASTM D445	117	150	▲ 141	74.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203527 **Received** : 14 Feb 2024
Lab Number : 06089104 **Tested** : 15 Feb 2024
Unique Number : 10876549 **Diagnosed** : 15 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com
 T: (704)597-0211
 F: (704)596-6198

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)