



Area

[46990]

Machine Id

JOHN DEERE 50G 1FF050GXTMH293996

Component

Left Final Drive

Fluid

JOHN DEERE GL-5 80W90 (2 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

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

FLUID CONDITION

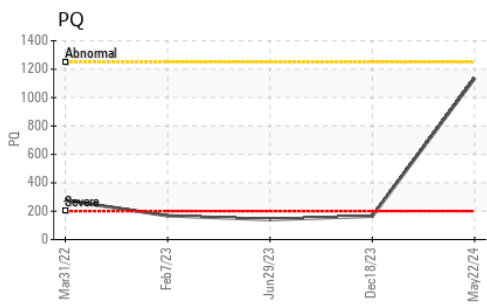
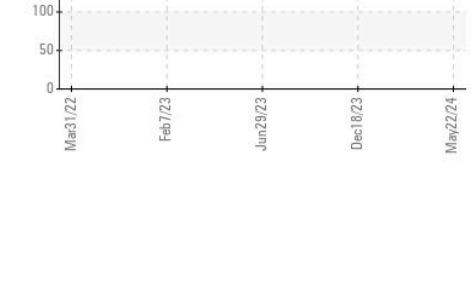
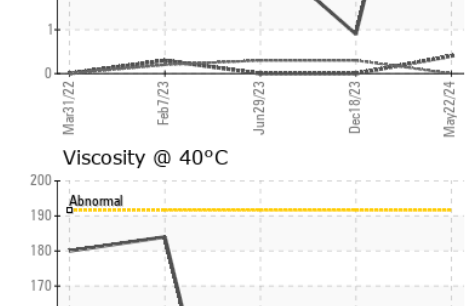
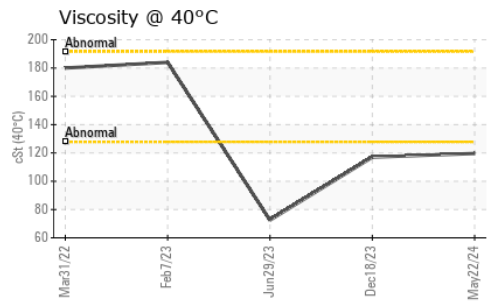
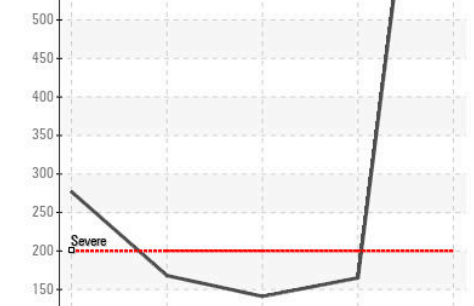
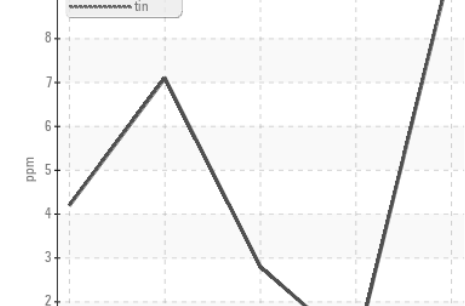
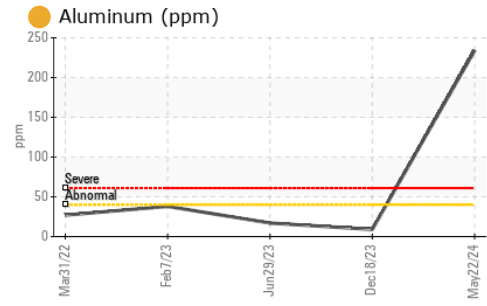
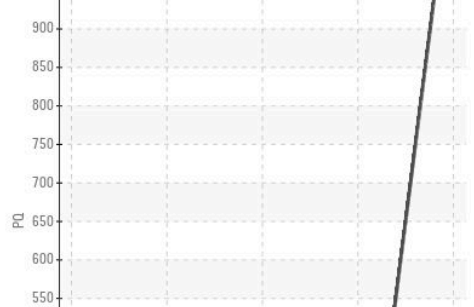
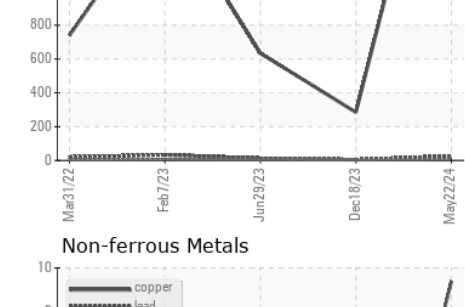
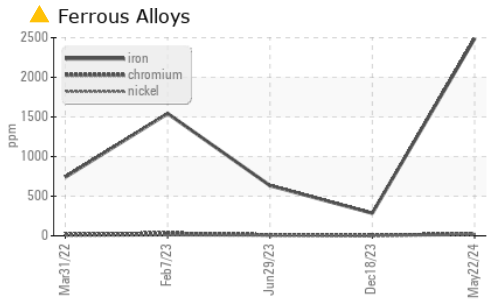
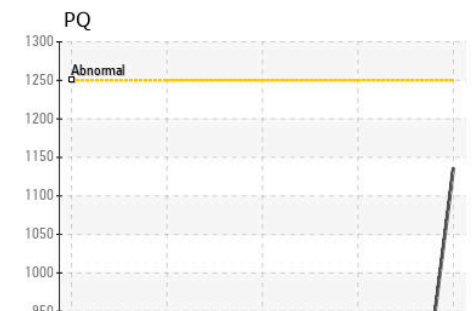
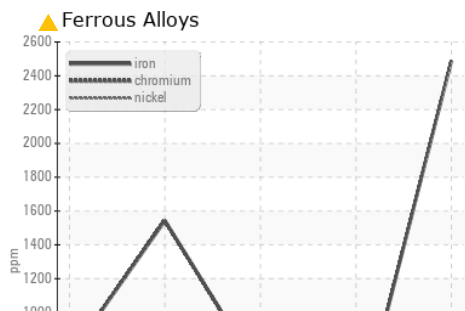
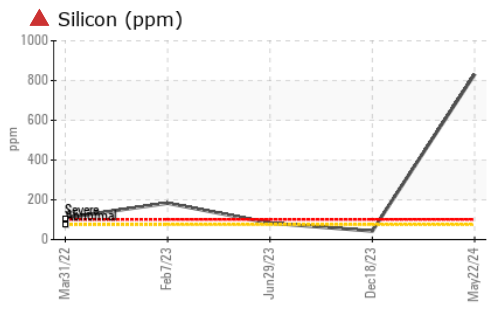
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217762	JR0196182	JR0176248
Sample Date		Client Info		22 May 2024	18 Dec 2023	29 Jun 2023
Machine Age	hrs	Client Info		2968	2430	1926
Oil Age	hrs	Client Info		2464	504	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL

PQ		ASTM D8184	>1250	1136	165	141
Iron	ppm	ASTM D5185m	>750	▲ 2489	285	634
Chromium	ppm	ASTM D5185m	>9	▲ 26	4	12
Nickel	ppm	ASTM D5185m	>10	9	3	4
Titanium	ppm	ASTM D5185m		19	1	2
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 234	9	● 17
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	10	<1	3
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 832	43	▲ 83
Potassium	ppm	ASTM D5185m	>20	59	9	30
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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

Sodium	ppm	ASTM D5185m	>51	30	2	3
Boron	ppm	ASTM D5185m		13	6	37
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		3	0	7
Manganese	ppm	ASTM D5185m		25	4	11
Magnesium	ppm	ASTM D5185m		59	23	● 106
Calcium	ppm	ASTM D5185m		588	496	● 2768
Phosphorus	ppm	ASTM D5185m		424	427	● 948
Zinc	ppm	ASTM D5185m		266	229	● 1076
Sulfur	ppm	ASTM D5185m		15962	15556	● 8256
Visc @ 40°C	cSt	ASTM D445		119.6	117	● 72.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217762 **Received** : 23 May 2024
Lab Number : 06189794 **Tested** : 31 May 2024
Unique Number : 11046546 **Diagnosed** : 31 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)