



WEAR	<b>SEVERE</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[46990]

Machine Id

JOHN DEERE 50G 1FF050GXTMH293996

Component

Right 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 advise that you inspect for the source(s) of wear. 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

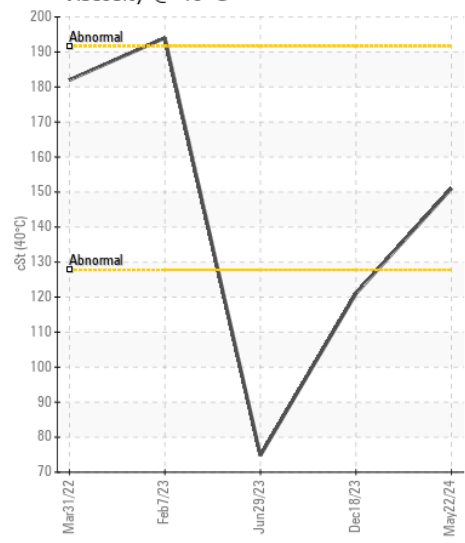
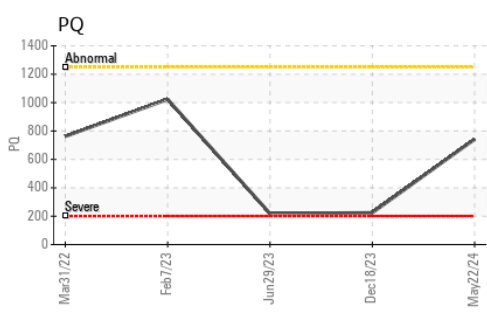
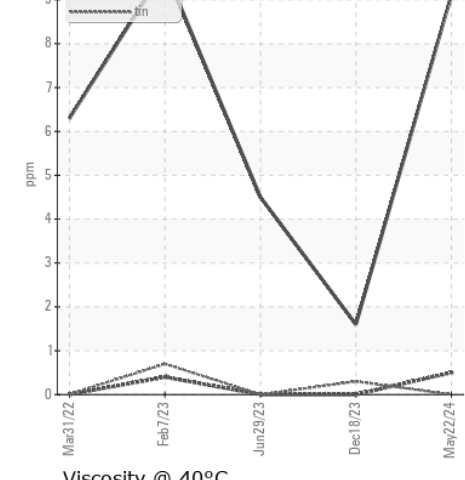
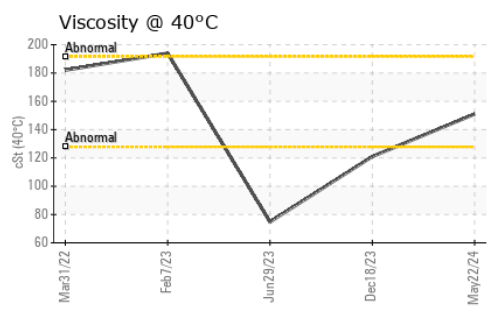
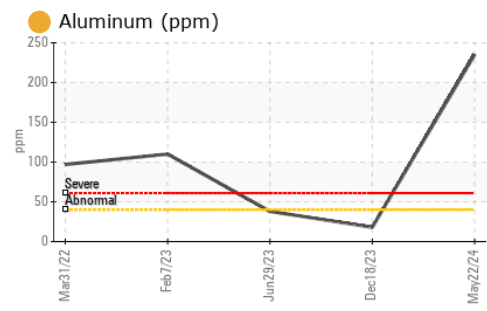
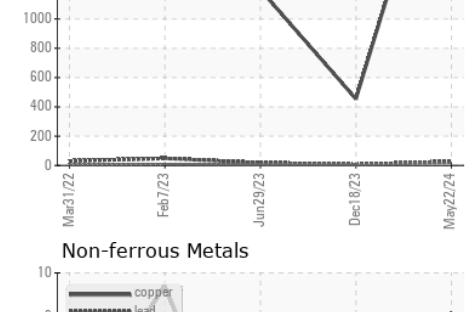
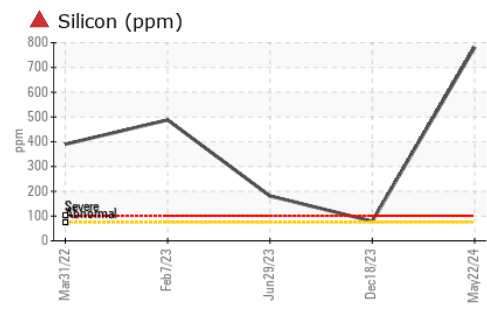
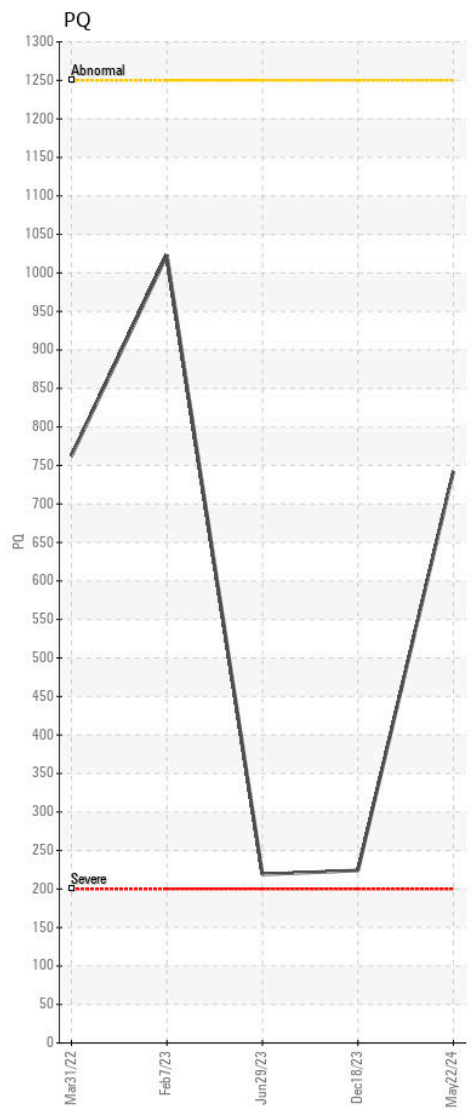
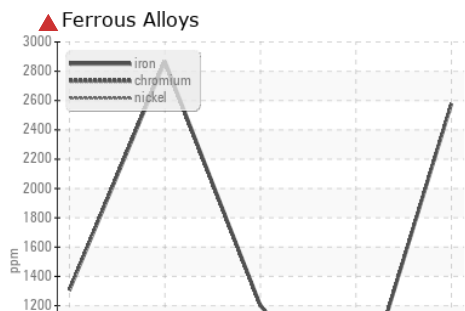
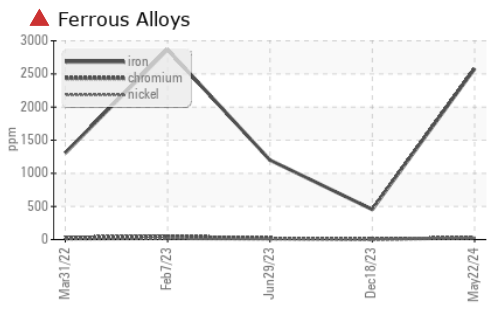
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217763	JR0196183	JR0176357
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	ABNORMAL	ABNORMAL

PQ		ASTM D8184	>1250	742	224	219
Iron	ppm	ASTM D5185m	>750	▲ 2578	454	▲ 1200
Chromium	ppm	ASTM D5185m	>9	▲ 27	5	▲ 18
Nickel	ppm	ASTM D5185m	>10	▲ 18	4	4
Titanium	ppm	ASTM D5185m		▲ 18	2	4
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 235	● 18	● 38
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	9	2	4
Tin	ppm	ASTM D5185m	>10	0	<1	0
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	▲ 781	▲ 79	▲ 181
Potassium	ppm	ASTM D5185m	>20	61	11	39
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	37	3	5
Boron	ppm	ASTM D5185m		20	7	39
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		3	0	7
Manganese	ppm	ASTM D5185m		23	5	15
Magnesium	ppm	ASTM D5185m		83	22	● 109
Calcium	ppm	ASTM D5185m		775	417	● 2733
Phosphorus	ppm	ASTM D5185m		697	413	● 951
Zinc	ppm	ASTM D5185m		389	204	● 1097
Sulfur	ppm	ASTM D5185m		29537	15930	● 8620
Visc @ 40°C	cSt	ASTM D445		151	121	● 74.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217763 **Received** : 23 May 2024  
**Lab Number** : 06189805 **Tested** : 30 May 2024  
**Unique Number** : 11046557 **Diagnosed** : 30 May 2024 - Angela Borella  
**Test Package** : CONST ( Additional Tests: PQ )

**B & S SITE DEVELOPMENT**  
 7800 PINEY BRANCH LANE  
 BRISTOW, VA  
 US 20136  
 Contact: DANNY HUFF  
 dhuff@bandssite.com  
 T: (540)270-3203  
 F: (703)753-0605

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)