



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[05W46692]
 Machine Id
JOHN DEERE 325G 1T0325GKTMJ408392
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (1 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217673	JR0192185	JR0162726
Sample Date		Client Info		21 May 2024	14 Nov 2023	01 Mar 2023
Machine Age	hrs	Client Info		2442	1943	1437
Oil Age	hrs	Client Info		499	1000	444
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	111	43	40
Iron	ppm	ASTM D5185m	>750	▲ 2789	▲ 3162	669
Chromium	ppm	ASTM D5185m	>9	▲ 49	▲ 47	17
Nickel	ppm	ASTM D5185m	>10	8	7	1
Titanium	ppm	ASTM D5185m		8	8	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 80	● 75	7
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	4	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

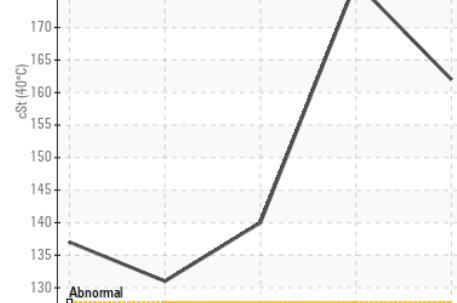
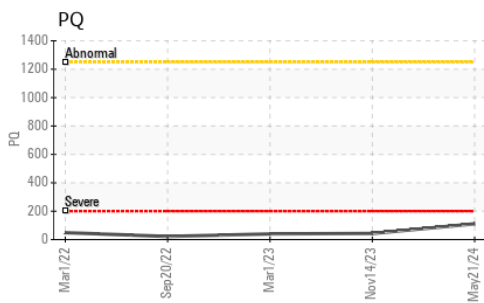
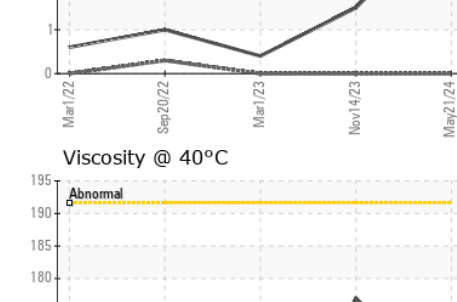
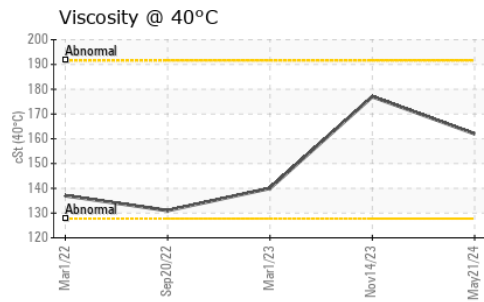
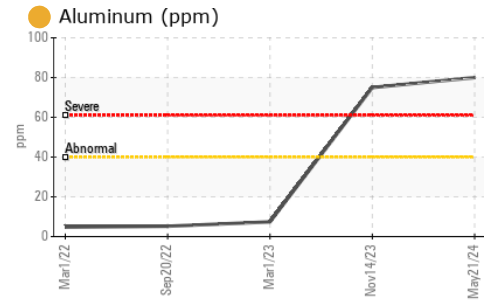
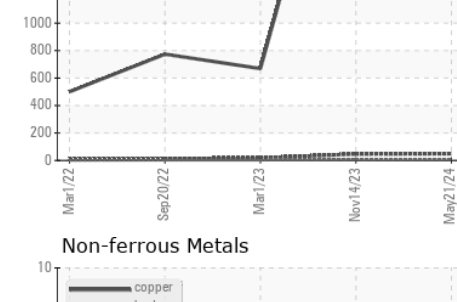
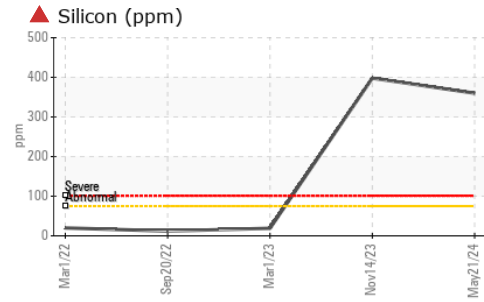
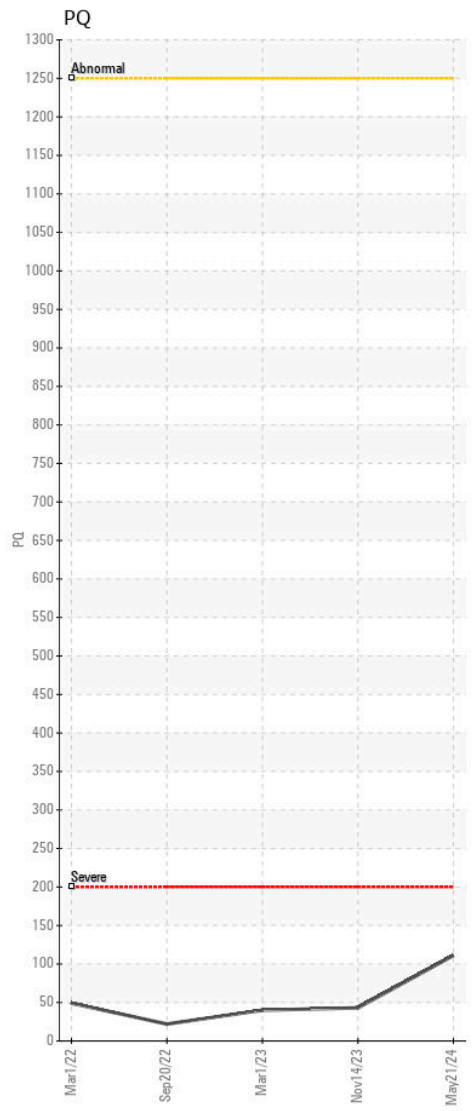
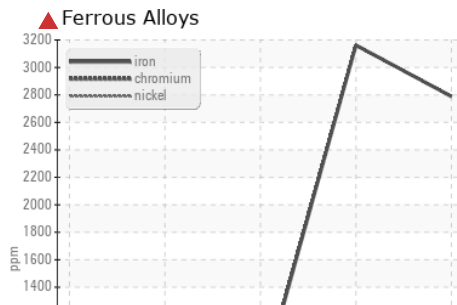
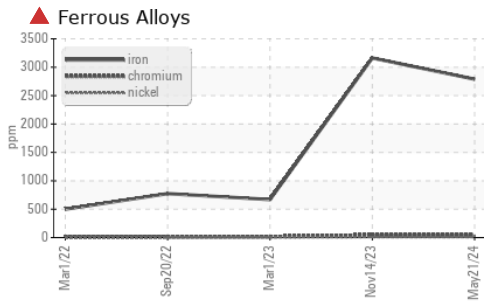
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 360	▲ 398	19
Potassium	ppm	ASTM D5185m	>20	28	38	23
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

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m	>51	21	16	9
Boron	ppm	ASTM D5185m		65	69	116
Barium	ppm	ASTM D5185m		17	40	45
Molybdenum	ppm	ASTM D5185m		7	4	2
Manganese	ppm	ASTM D5185m		20	32	8
Magnesium	ppm	ASTM D5185m		16	16	10
Calcium	ppm	ASTM D5185m		140	41	31
Phosphorus	ppm	ASTM D5185m		668	1533	1475
Zinc	ppm	ASTM D5185m		48	66	50
Sulfur	ppm	ASTM D5185m		21599	22064	24477
Visc @ 40°C	cSt	ASTM D445		162	177	140



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217673
Lab Number : 06188264
Unique Number : 11045016
Test Package : CONST (Additional Tests: PQ)

Received : 22 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Sean Felton

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

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)