



Area
[05W46514]
Machine Id
JOHN DEERE 1FF350GXPKE814131
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (2 GAL)

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214332	JR0169998	JR0160454
Sample Date		Client Info		22 May 2024	18 Jul 2023	25 Jan 2023
Machine Age	hrs	Client Info		4980	3941	3430
Oil Age	hrs	Client Info		500	0	1500
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	SEVERE

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	438	1103	556
Iron	ppm	ASTM D5185m	>750	▲ 1260	▲ 6256	2326
Chromium	ppm	ASTM D5185m	>9	9	▲ 48	17
Nickel	ppm	ASTM D5185m	>10	4	▲ 12	2
Titanium	ppm	ASTM D5185m		11	72	17
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 50	● 324	● 103
Lead	ppm	ASTM D5185m	>15	<1	<1	0
Copper	ppm	ASTM D5185m	>40	3	12	5
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	3	<1
White Metal	scalar	*Visual	NONE	MODER	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

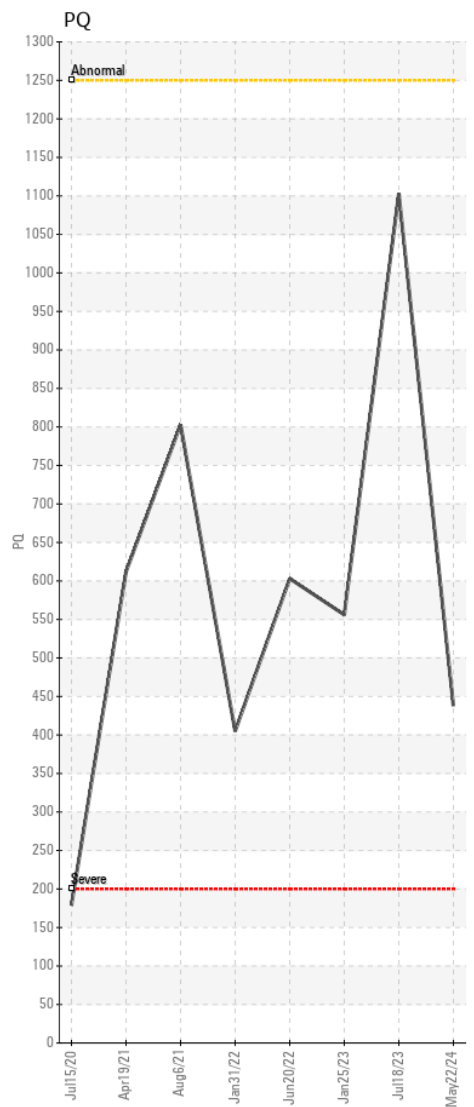
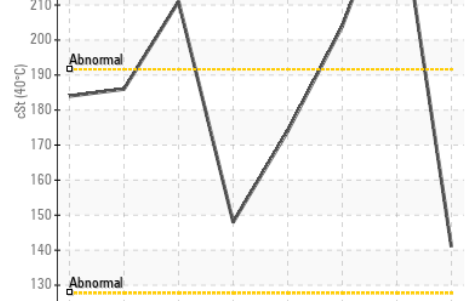
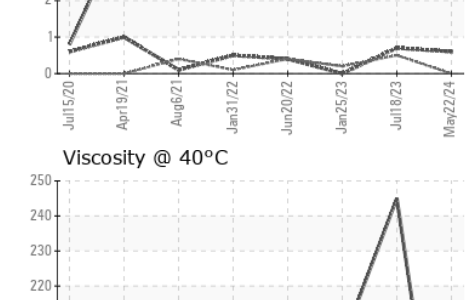
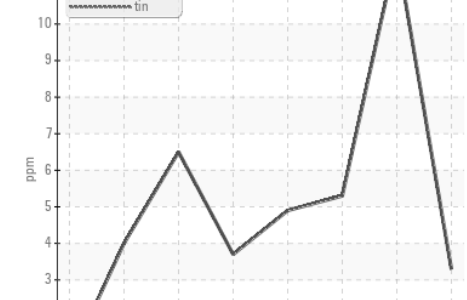
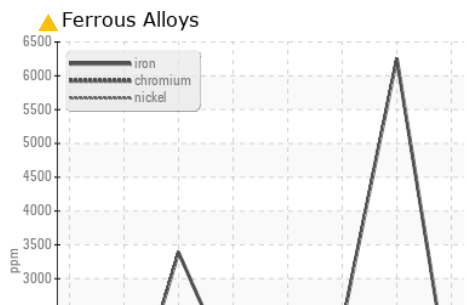
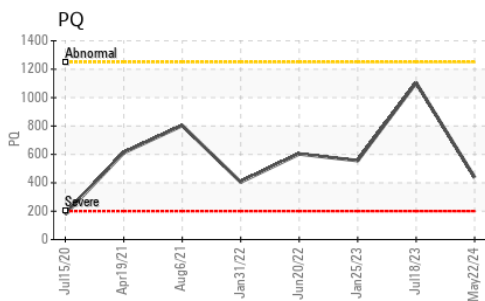
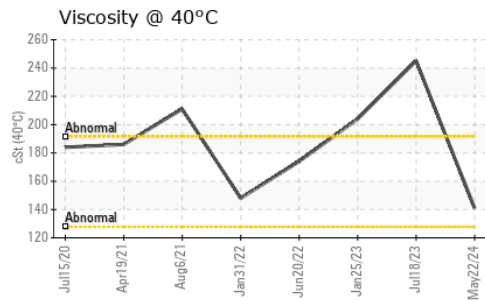
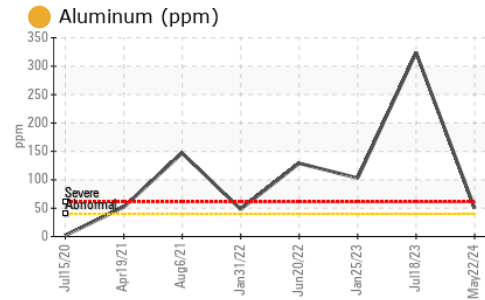
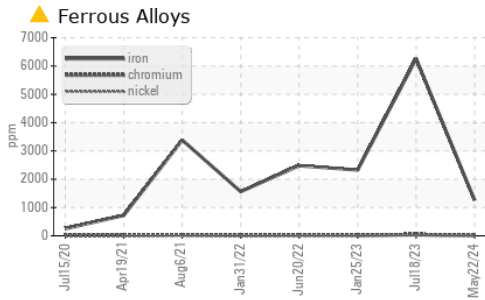
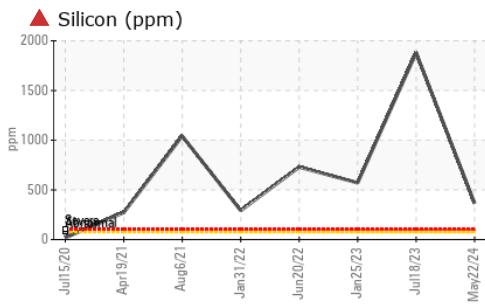
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 366	▲ 1879	▲ 571
Potassium	ppm	ASTM D5185m	>20	12	78	27
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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 due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	2	30	10
Boron	ppm	ASTM D5185m		4	24	10
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		2	5	2
Manganese	ppm	ASTM D5185m		10	56	20
Magnesium	ppm	ASTM D5185m		8	30	10
Calcium	ppm	ASTM D5185m		77	43	19
Phosphorus	ppm	ASTM D5185m		400	344	212
Zinc	ppm	ASTM D5185m		24	18	15
Sulfur	ppm	ASTM D5185m		20664	20716	13766
Visc @ 40°C	cSt	ASTM D445		141	● 245	204



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214332
Lab Number : 06191287
Unique Number : 11048039
Test Package : CONST (Additional Tests: PQ)

Received : 24 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Sean Felton

FITZGERALD EXCAVATING
 PO BOX 2168
 WINCHESTER, VA
 US 22604
 Contact: Service Manager

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)

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