



Machine Id
JOHN DEERE 1FF350GXCHF812280
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

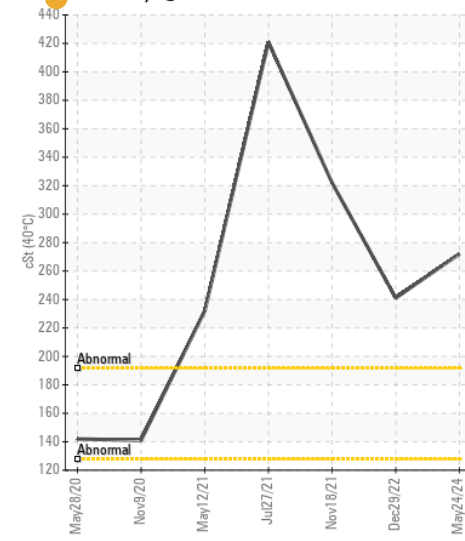
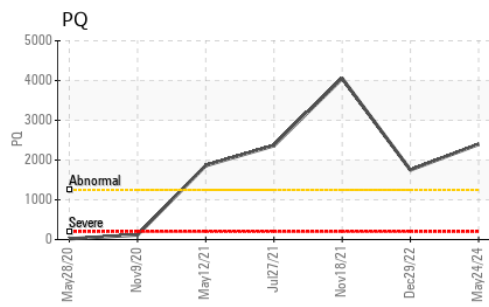
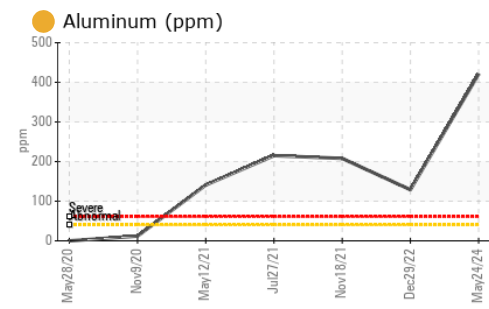
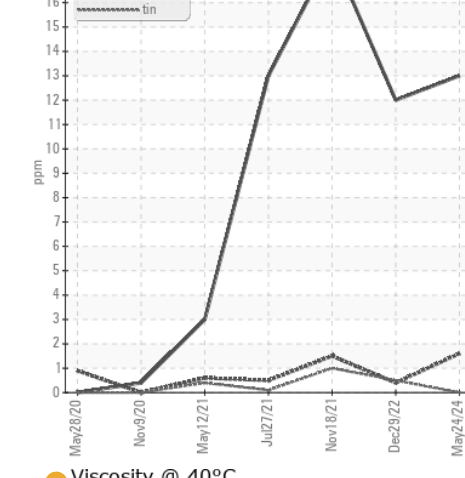
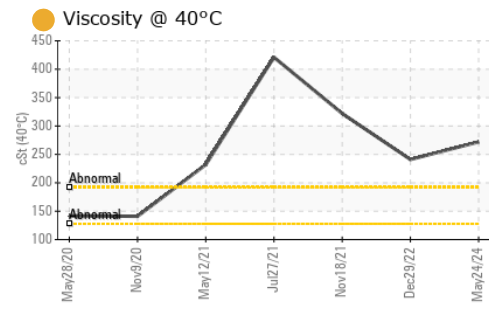
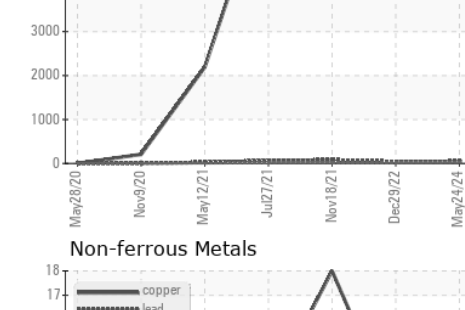
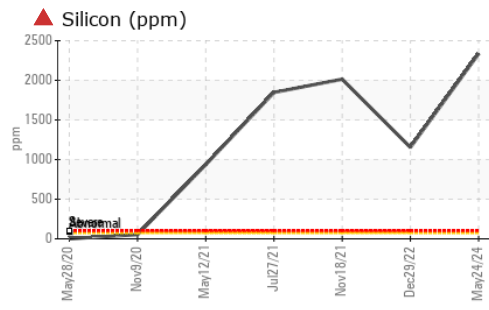
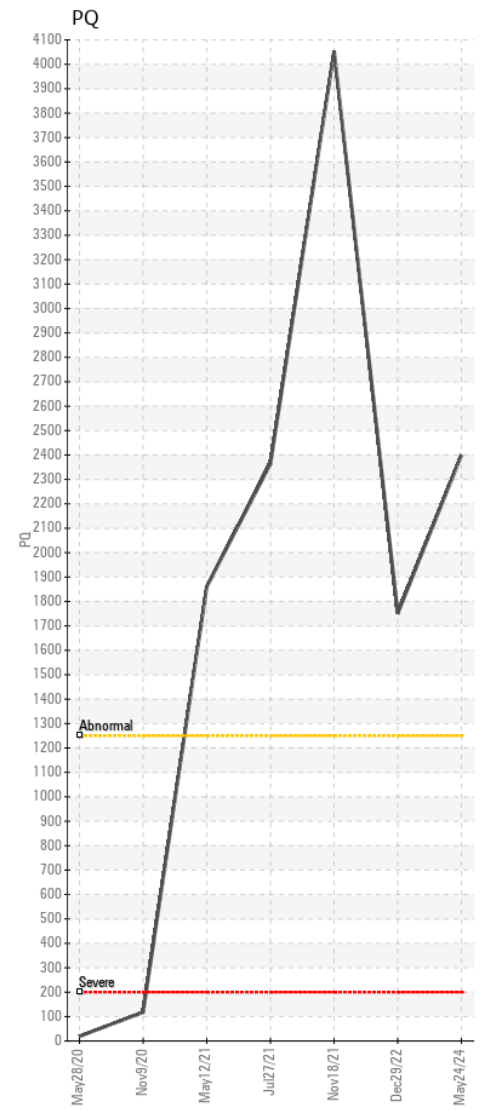
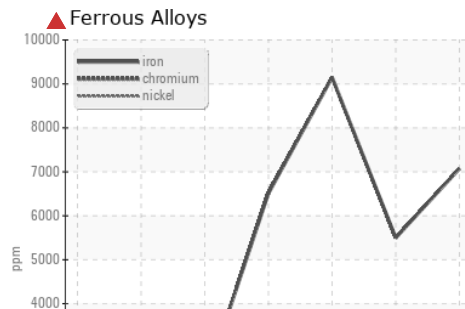
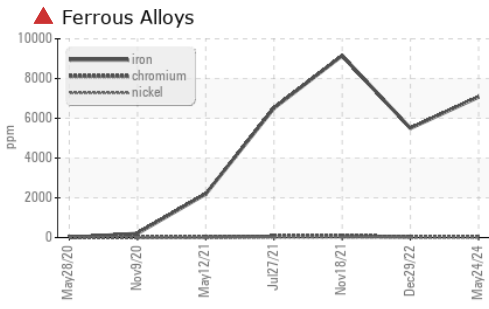
CONTAMINATION

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

FLUID CONDITION

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195511	JR0154279	JR0106331
Sample Date		Client Info		24 May 2024	29 Dec 2022	18 Nov 2021
Machine Age	hrs	Client Info		6316	4991	3973
Oil Age	hrs	Client Info		0	4991	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	None	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	2399	1751	4053
Iron	ppm	ASTM D5185m	>750	▲ 7073	▲ 5499	▲ 9150
Chromium	ppm	ASTM D5185m	>9	▲ 48	▲ 40	▲ 80
Nickel	ppm	ASTM D5185m	>10	11	8	10
Titanium	ppm	ASTM D5185m		46	29	56
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 421	● 129	● 208
Lead	ppm	ASTM D5185m	>15	2	<1	2
Copper	ppm	ASTM D5185m	>40	13	12	18
Tin	ppm	ASTM D5185m	>10	0	<1	1
Vanadium	ppm	ASTM D5185m		2	2	3
White Metal	scalar	*Visual	NONE	NONE	MODER	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 2335	▲ 1154	▲ 2014
Potassium	ppm	ASTM D5185m	>20	151	34	51
Water	%	ASTM D6304	>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	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	13	6	12
Boron	ppm	ASTM D5185m		39	46	38
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		5	4	10
Manganese	ppm	ASTM D5185m		55	37	74
Magnesium	ppm	ASTM D5185m		54	11	26
Calcium	ppm	ASTM D5185m		229	29	27
Phosphorus	ppm	ASTM D5185m		359	438	292
Zinc	ppm	ASTM D5185m		13	0	17
Sulfur	ppm	ASTM D5185m		29334	25056	14991
Visc @ 40°C	cSt	ASTM D445		● 272	● 241	● 322



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195511 **Received** : 30 May 2024
Lab Number : 06196038 **Tested** : 02 Jun 2024
Unique Number : 11058161 **Diagnosed** : 02 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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

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)

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F: