



Area
[W52507 IRON HORSE]

Machine Id
JOHN DEERE 30G 1FF030GXJJK266195

Component
Left Final Drive

Fluid
JOHN DEERE GL-5 80W90 (--- 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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211623	JR0125627	---
Sample Date		Client Info		17 Jun 2024	11 Jul 2022	---
Machine Age	hrs	Client Info		2111	863	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	282	47	---
Iron	ppm	ASTM D5185m	>750	686	148	---
Chromium	ppm	ASTM D5185m	>9	12	3	---
Nickel	ppm	ASTM D5185m	>10	5	<1	---
Titanium	ppm	ASTM D5185m		2	<1	---
Silver	ppm	ASTM D5185m		0	2	---
Aluminum	ppm	ASTM D5185m	>40	15	5	---
Lead	ppm	ASTM D5185m	>15	0	7	---
Copper	ppm	ASTM D5185m	>40	4	7	---
Tin	ppm	ASTM D5185m	>10	0	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

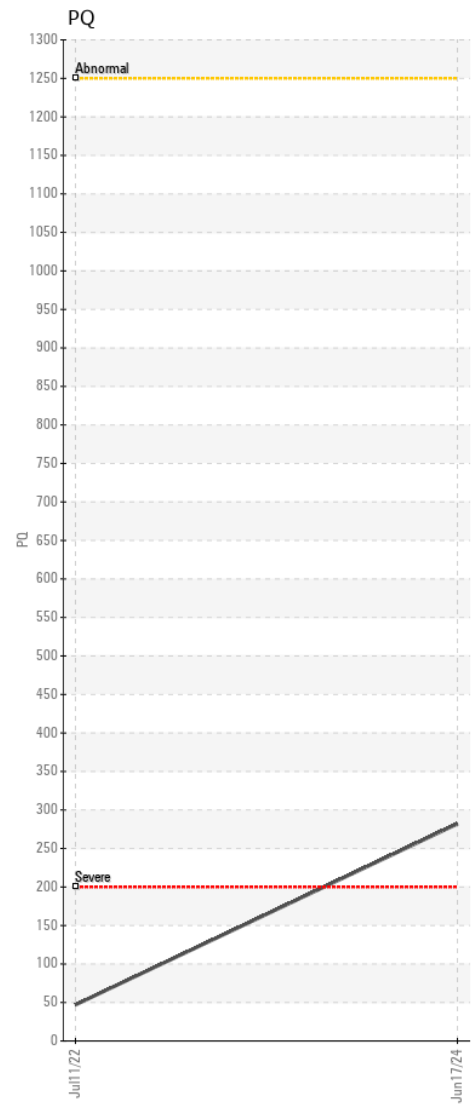
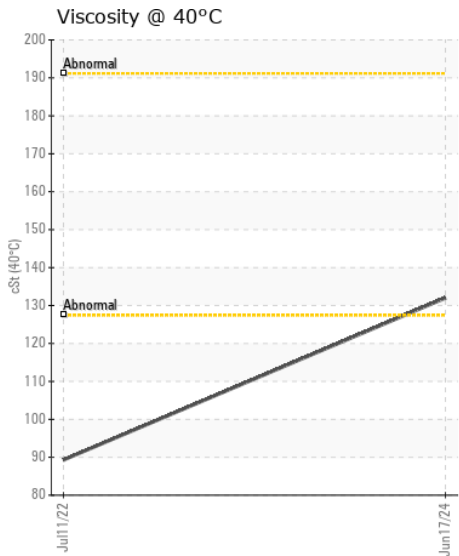
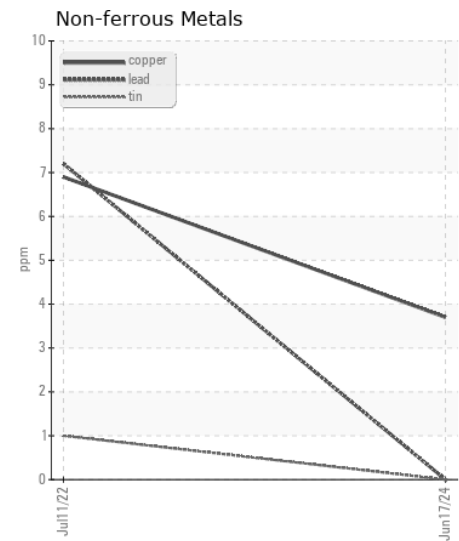
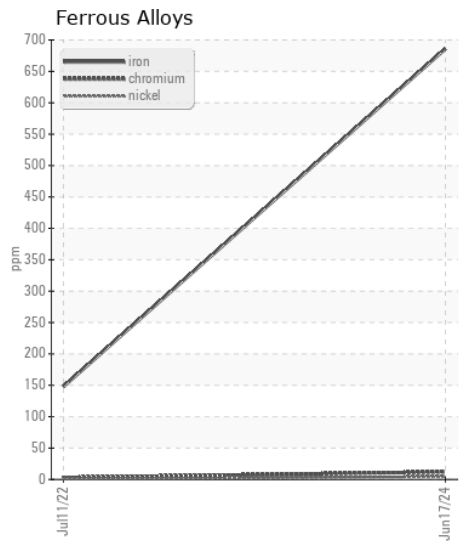
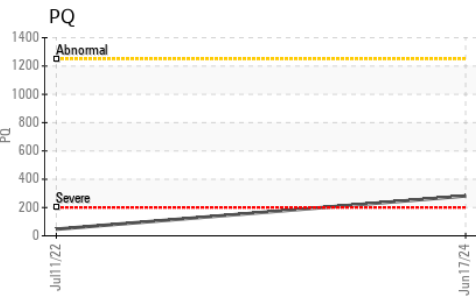
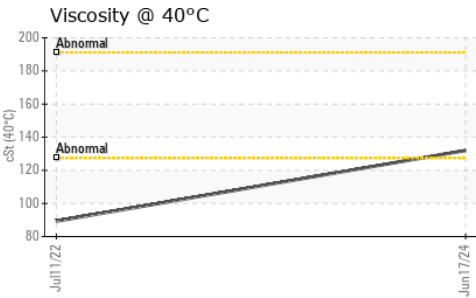
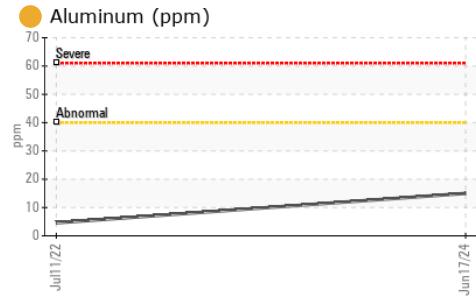
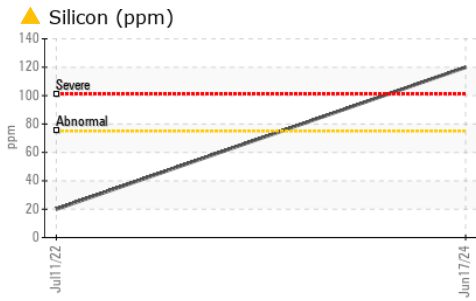
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	120	20	---
Potassium	ppm	ASTM D5185m	>20	4	3	---
Water		WC Method	>0.075	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	2	3	---
Boron	ppm	ASTM D5185m		62	16	---
Barium	ppm	ASTM D5185m		3	13	---
Molybdenum	ppm	ASTM D5185m		3	15	---
Manganese	ppm	ASTM D5185m		8	3	---
Magnesium	ppm	ASTM D5185m		6	14	---
Calcium	ppm	ASTM D5185m		633	2681	---
Phosphorus	ppm	ASTM D5185m		741	438	---
Zinc	ppm	ASTM D5185m		211	541	---
Sulfur	ppm	ASTM D5185m		25925	2510	---
Visc @ 40°C	cSt	ASTM D445		132	89.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211623 **Received** : 21 Jun 2024
Lab Number : 06217075 **Tested** : 24 Jun 2024
Unique Number : 11089939 **Diagnosed** : 24 Jun 2024 - Jonathan Hester
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)