



Area
[W52279]

Machine Id
JOHN DEERE 333G 1T0333GMCMF402595

Component
Right 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 recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211765	JR0165830	JR0147054
Sample Date		Client Info		18 Jun 2024	25 Apr 2023	05 Jan 2023
Machine Age	hrs	Client Info		2247	1477	989
Oil Age	hrs	Client Info		747	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	66	36	41
Iron	ppm	ASTM D5185m	>750	▲ 1516	992	757
Chromium	ppm	ASTM D5185m	>9	▲ 19	17	12
Nickel	ppm	ASTM D5185m	>10	9	8	4
Titanium	ppm	ASTM D5185m		6	3	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 91	● 37	14
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	2	2	2
Tin	ppm	ASTM D5185m	>10	0	<1	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

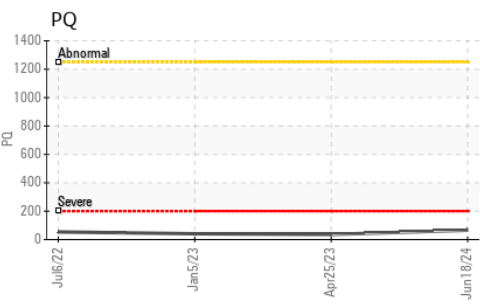
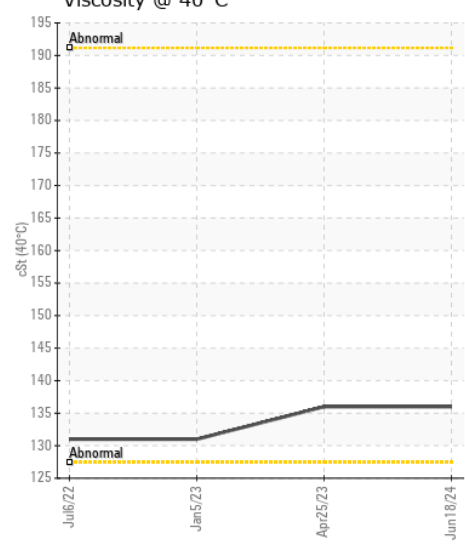
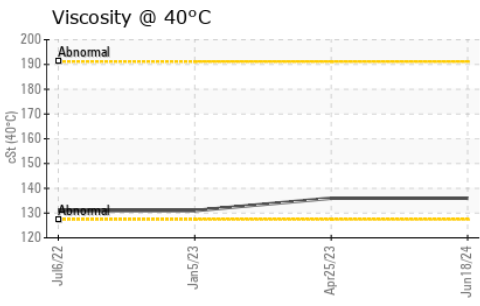
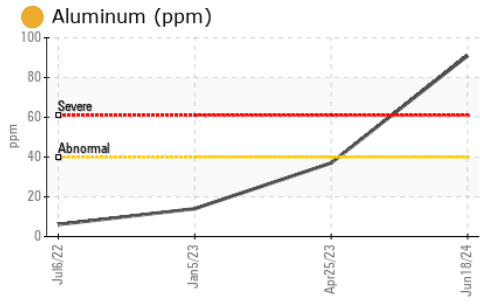
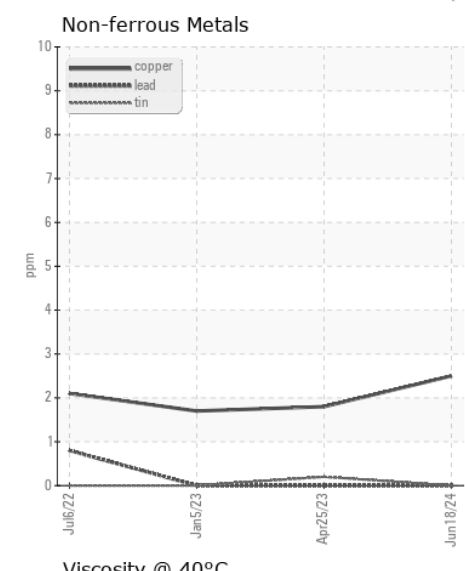
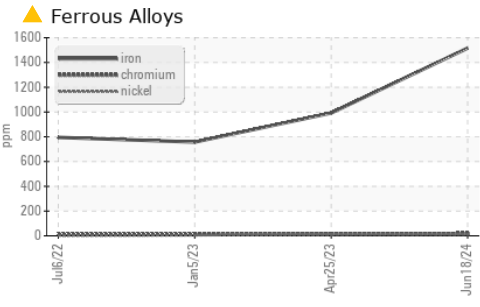
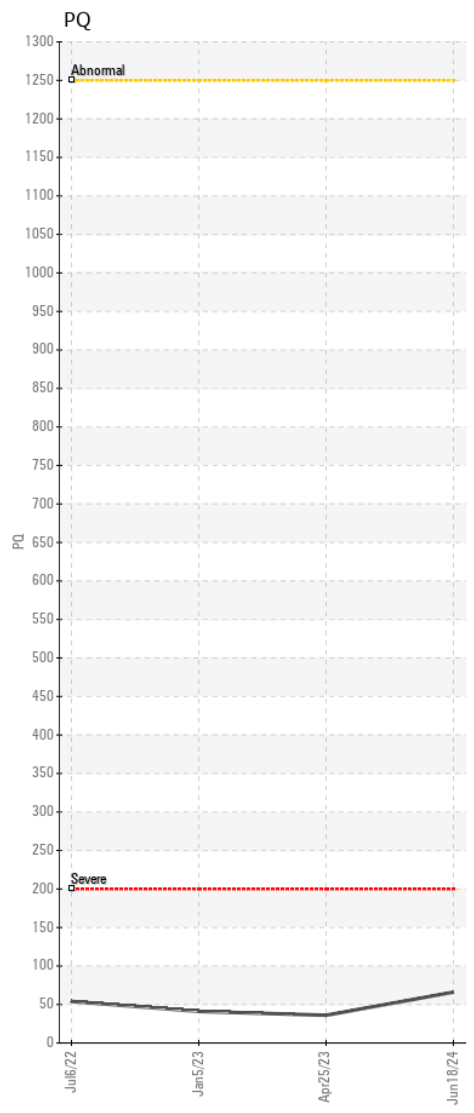
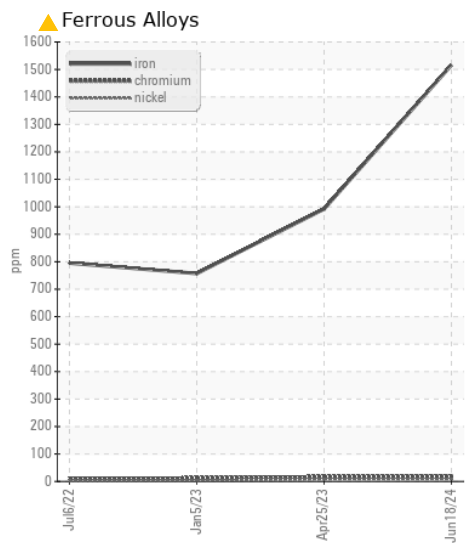
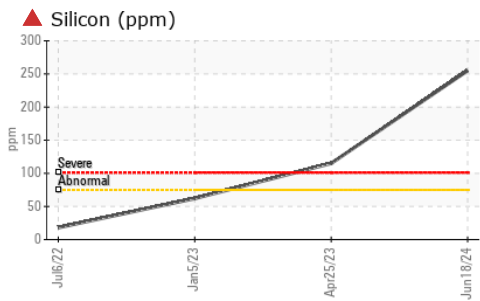
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 255	▲ 115	62
Potassium	ppm	ASTM D5185m	>20	23	15	11
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	0.2%	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	10	7	2
Boron	ppm	ASTM D5185m		15	24	29
Barium	ppm	ASTM D5185m		7	19	24
Molybdenum	ppm	ASTM D5185m		3	3	2
Manganese	ppm	ASTM D5185m		15	11	7
Magnesium	ppm	ASTM D5185m		12	10	5
Calcium	ppm	ASTM D5185m		88	27	18
Phosphorus	ppm	ASTM D5185m		346	527	384
Zinc	ppm	ASTM D5185m		31	33	29
Sulfur	ppm	ASTM D5185m		20396	24188	17001
Visc @ 40°C	cSt	ASTM D445		136	136	131



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211765 **Received** : 19 Jun 2024
Lab Number : 06214962 **Tested** : 20 Jun 2024
Unique Number : 11087826 **Diagnosed** : 21 Jun 2024 - Sean Felton
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)