



Area
[W53146]

Machine Id
JOHN DEERE 331G 1T0331GKJLF371355

Component
Right 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.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

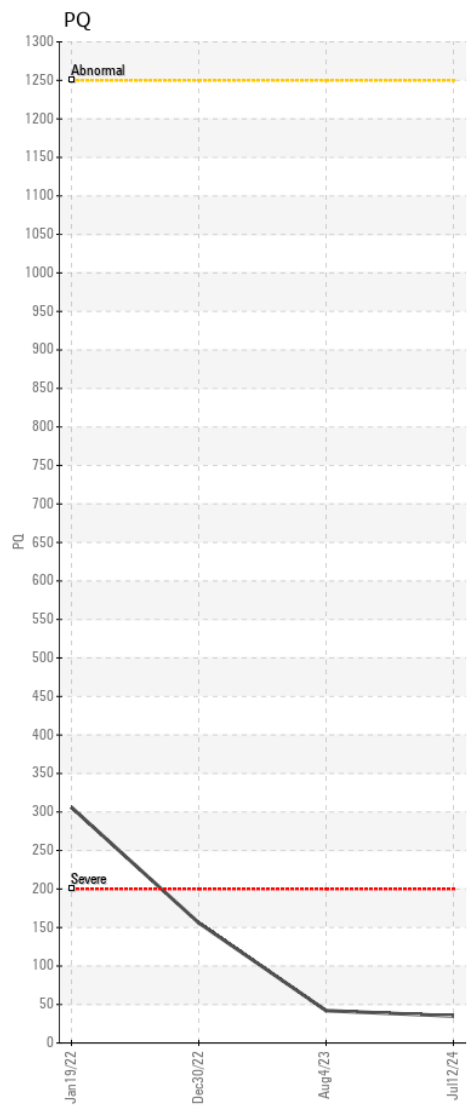
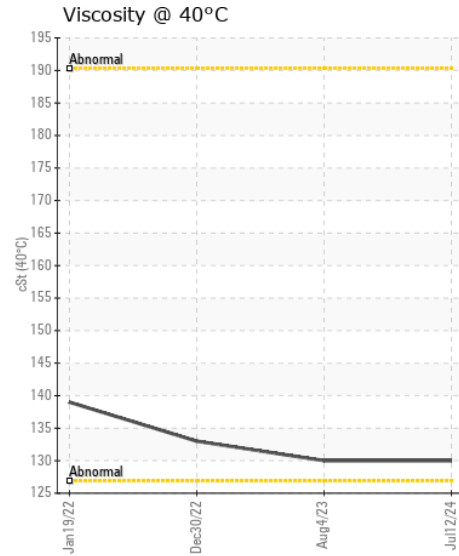
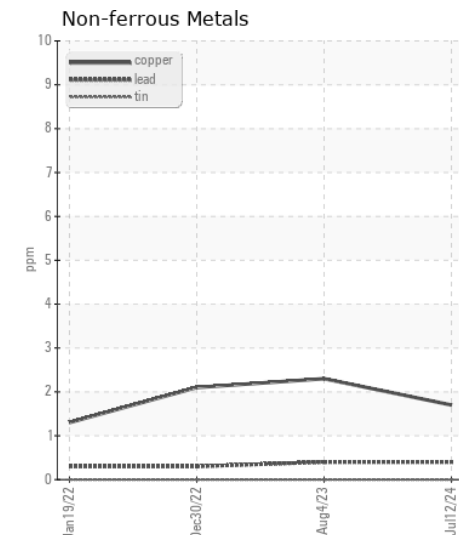
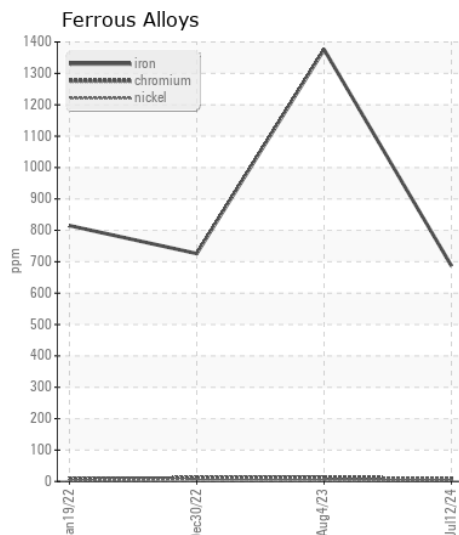
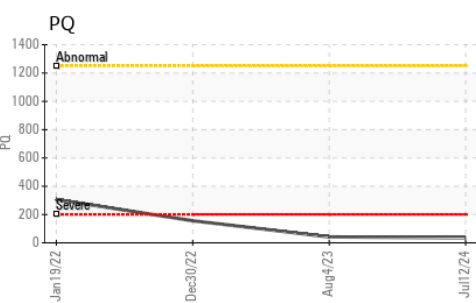
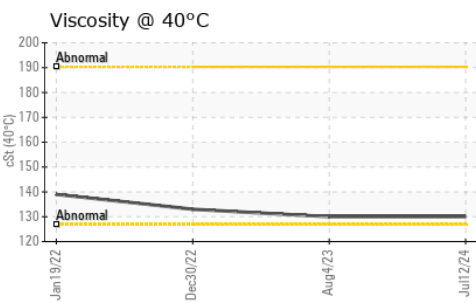
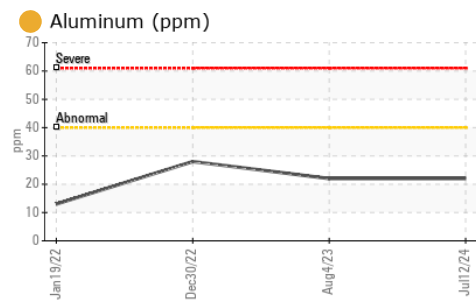
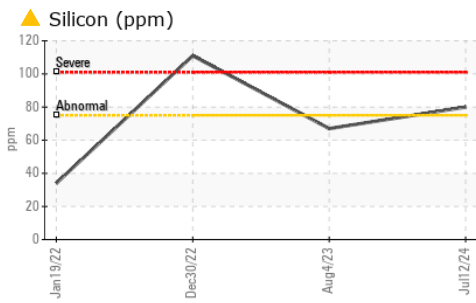
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225169	JR0164294	JR0148036
Sample Date		Client Info		12 Jul 2024	04 Aug 2023	30 Dec 2022
Machine Age	hrs	Client Info		1938	1445	977
Oil Age	hrs	Client Info		0	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				ABNORMAL	ABNORMAL	ABNORMAL

PQ		ASTM D8184	>1250	35	42	156
Iron	ppm	ASTM D5185m	>750	687	▲ 1376	726
Chromium	ppm	ASTM D5185m	>9	7	▲ 13	11
Nickel	ppm	ASTM D5185m	>10	5	7	8
Titanium	ppm	ASTM D5185m		2	1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 22	22	● 28
Lead	ppm	ASTM D5185m	>15	<1	<1	<1
Copper	ppm	ASTM D5185m	>40	2	2	2
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

Silicon	ppm	ASTM D5185m	>75	▲ 80	67	▲ 111
Potassium	ppm	ASTM D5185m	>20	16	21	28
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

Sodium	ppm	ASTM D5185m	>51	2	9	16
Boron	ppm	ASTM D5185m		35	165	77
Barium	ppm	ASTM D5185m		11	30	58
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		8	14	11
Magnesium	ppm	ASTM D5185m		10	6	10
Calcium	ppm	ASTM D5185m		81	42	48
Phosphorus	ppm	ASTM D5185m		487	1079	689
Zinc	ppm	ASTM D5185m		57	51	64
Sulfur	ppm	ASTM D5185m		13311	22185	23960
Visc @ 40°C	cSt	ASTM D445		130	130	133



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225169 **Received** : 17 Jul 2024
Lab Number : 06239364 **Tested** : 18 Jul 2024
Unique Number : 11128198 **Diagnosed** : 19 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - ASHLAND
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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)