



Area
[W68411]
 Machine Id
HITACHI 300LC 1FFDDP7M840740
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (3 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. (Customer Sample Comment: W68411)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0220368	JR0205715	JR0192658
Sample Date		Client Info		16 Jul 2024	18 Mar 2024	09 Nov 2023
Machine Age	hrs	Client Info		3505	3032	2535
Oil Age	hrs	Client Info		1008	1032	1096
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		139	25	122
Iron	ppm	ASTM D5185m	>500	▲ 641	28	174
Chromium	ppm	ASTM D5185m	>10	6	0	3
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		2	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	● 39	0	1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	5	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

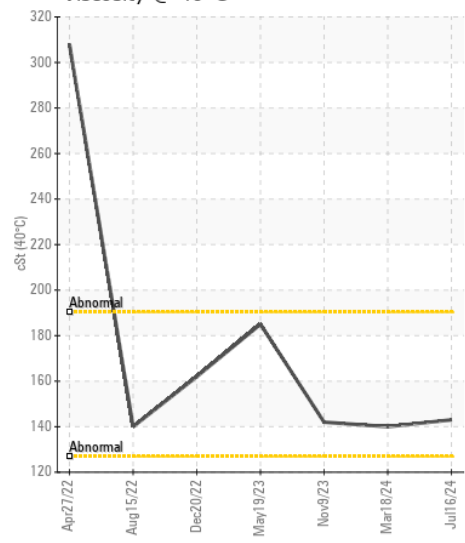
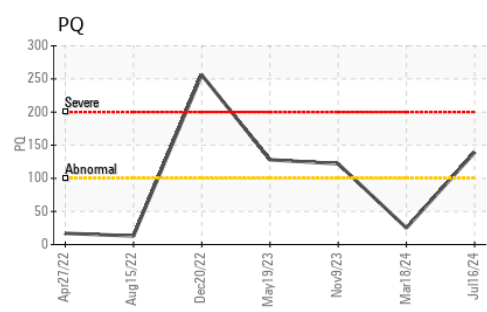
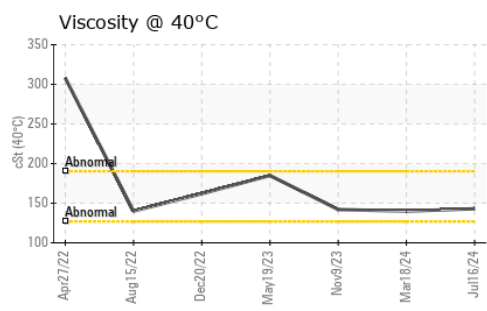
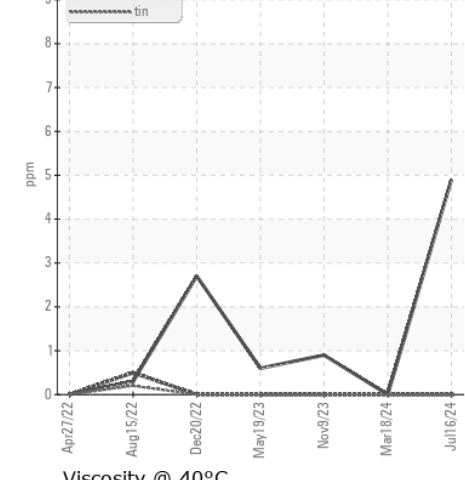
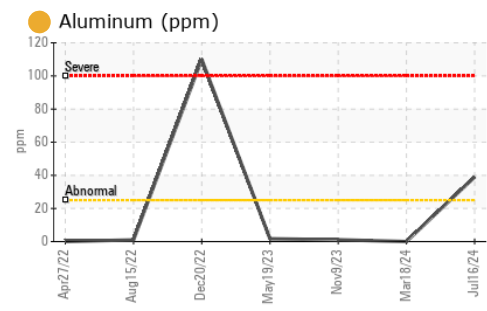
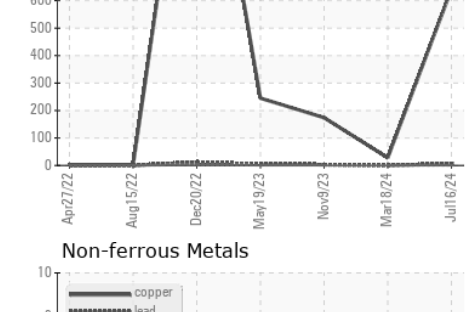
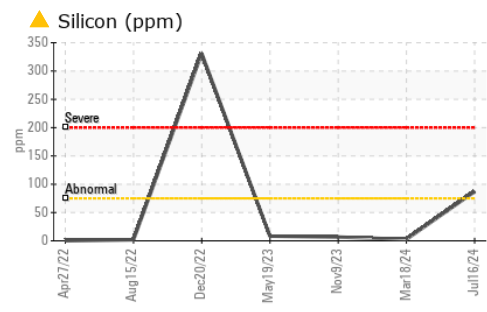
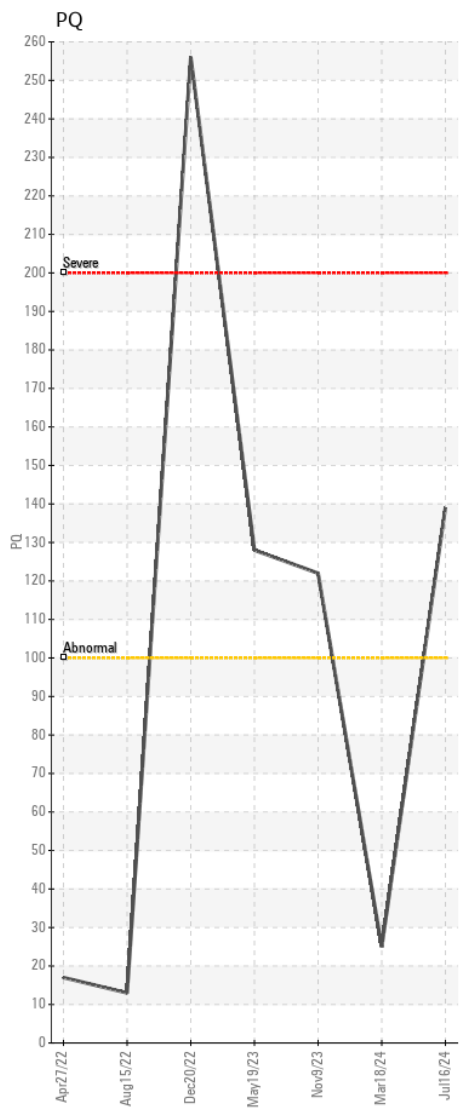
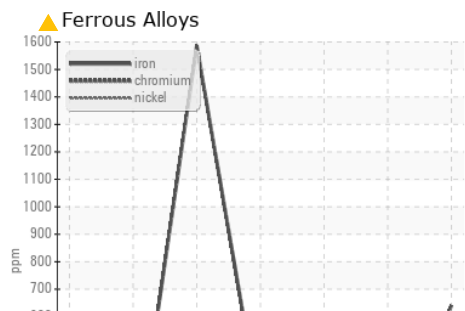
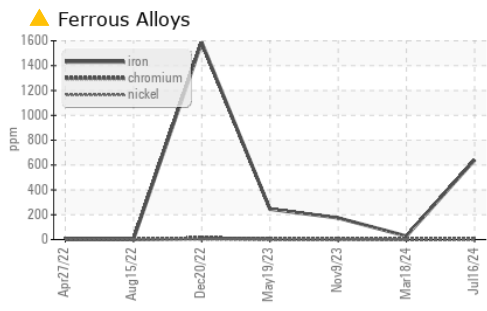
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 87	3	7
Potassium	ppm	ASTM D5185m	>20	6	0	6
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	0	0
Boron	ppm	ASTM D5185m		8	33	13
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	4	<1
Manganese	ppm	ASTM D5185m		6	0	2
Magnesium	ppm	ASTM D5185m		5	18	2
Calcium	ppm	ASTM D5185m		124	26	39
Phosphorus	ppm	ASTM D5185m		346	476	330
Zinc	ppm	ASTM D5185m		37	19	5
Sulfur	ppm	ASTM D5185m		19404	23121	17669
Visc @ 40°C	cSt	ASTM D445		143	140	142



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220368 **Received** : 18 Jul 2024
Lab Number : 06240559 **Tested** : 19 Jul 2024
Unique Number : 11129393 **Diagnosed** : 20 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)