James River Equipment

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350G 1FF350GXCCE808762
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (2 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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

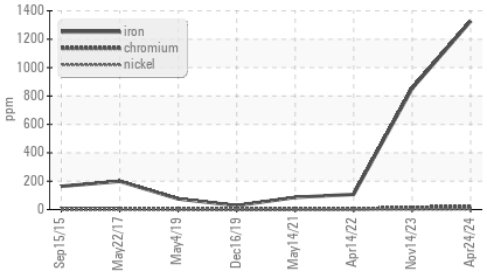
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

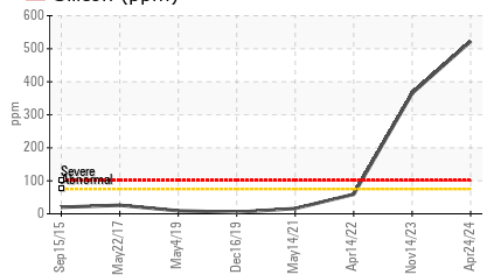
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0179262	JR0180998	JR0124244
Sample Date		Client Info		24 Apr 2024	14 Nov 2023	14 Apr 2022
Machine Age	hrs	Client Info		7442	7073	6123
Oil Age	hrs	Client Info		0	0	0
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				SEVERE	SEVERE	NORMAL
PQ		ASTM D8184	>1250	687	308	71
Iron	ppm	ASTM D5185m	>750	▲ 1326	▲ 853	107
Chromium	ppm	ASTM D5185m	>9	▲ 20	▲ 15	4
Nickel	ppm	ASTM D5185m	>10	2	<1	0
Titanium	ppm	ASTM D5185m		9	6	1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	● 89	● 63	10
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	3	1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 522	▲ 365	59
Potassium	ppm	ASTM D5185m	>20	21	16	<1
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	9	6	1
Boron	ppm	ASTM D5185m		194	160	172
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		9	<1	<1
Manganese	ppm	ASTM D5185m		11	8	1
Magnesium	ppm	ASTM D5185m		33	7	0
Calcium	ppm	ASTM D5185m		63	31	1
Phosphorus	ppm	ASTM D5185m		1193	1285	1260
Zinc	ppm	ASTM D5185m		30	8	0
Sulfur	ppm	ASTM D5185m		29179	30046	25056
Visc @ 40°C	cSt	ASTM D445		143	144	145

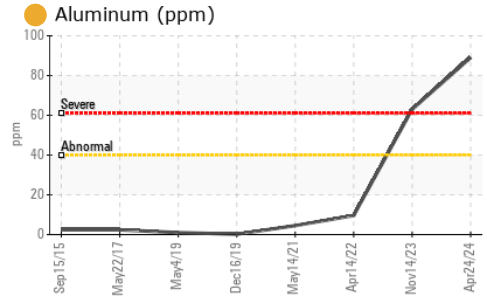
Ferrous Alloys



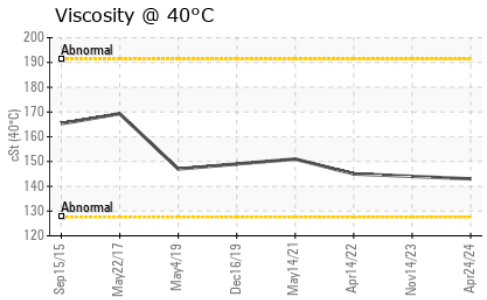
Silicon (ppm)



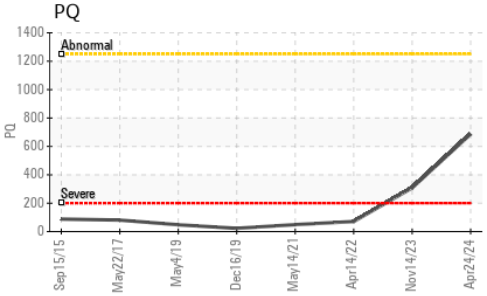
Aluminum (ppm)



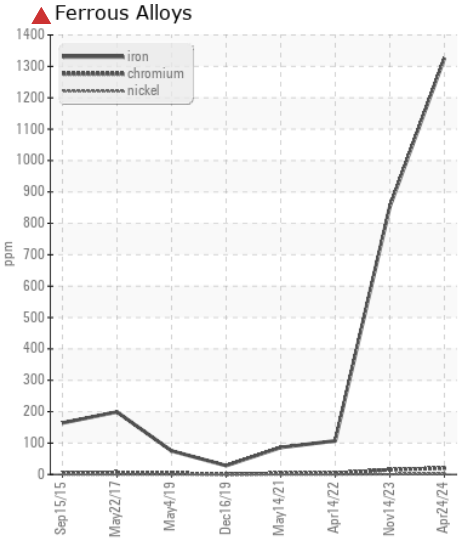
Viscosity @ 40°C



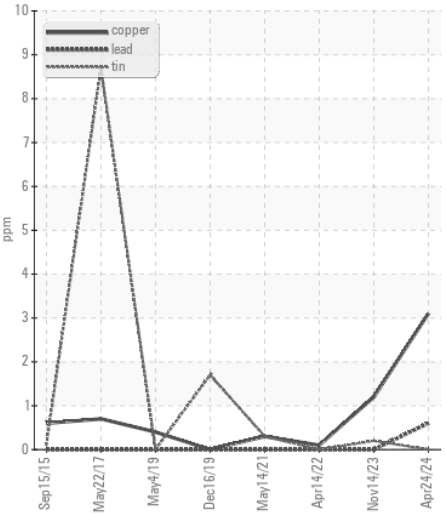
PQ



Ferrous Alloys



Non-ferrous Metals



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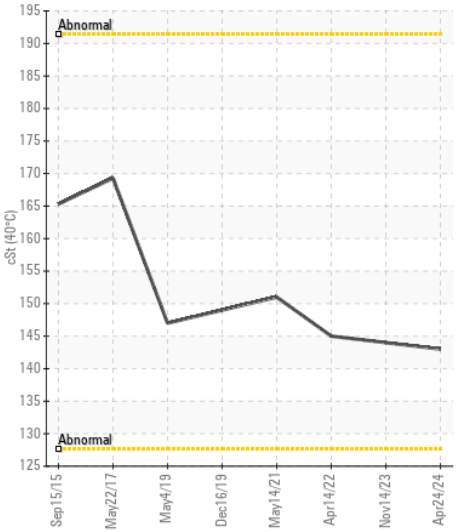
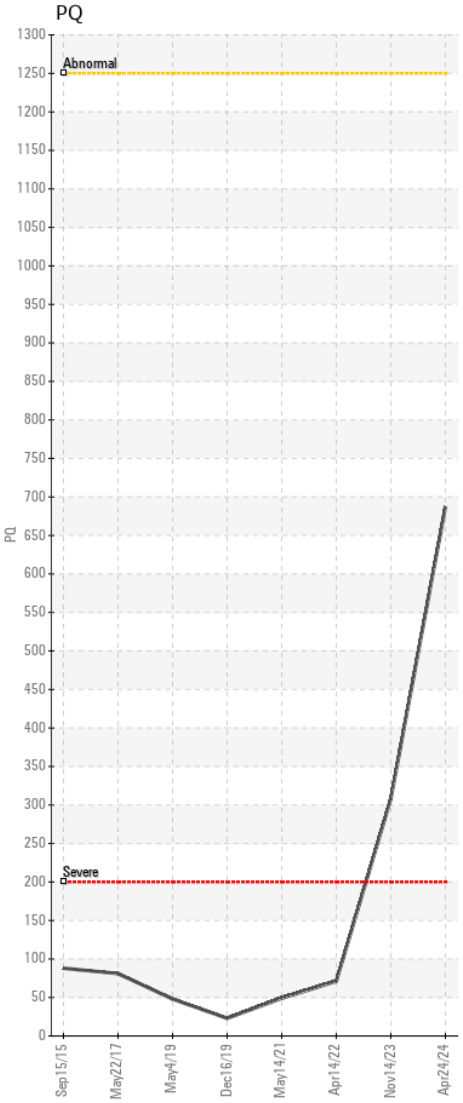


PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179262
Lab Number : 06161742
Unique Number : 10997165
Test Package : CONST (Additional Tests: PQ)

Received : 26 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 30 Apr 2024 - Sean Felton

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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