James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 317G 1T0317GJPJJ342655
Component
Right Final Drive
Fluid
JOHN DEERE HYDRAU (--- 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.

WEAR

The chromium level is abnormal. All other component wear rates are normal.

CONTAMINATION

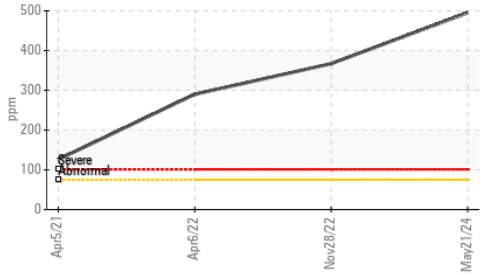
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

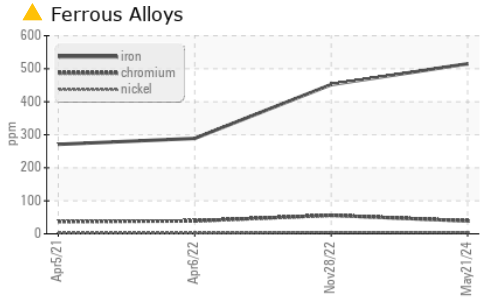
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207753	JR0141521	JR0111740
Sample Date		Client Info		21 May 2024	28 Nov 2022	06 Apr 2022
Machine Age	hrs	Client Info		2893	1949	1513
Oil Age	hrs	Client Info		944	998	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
PQ		ASTM D8184	>1250	74	38	29
Iron	ppm	ASTM D5185m	>750	515	452	289
Chromium	ppm	ASTM D5185m	>9	▲ 39	▲ 56	▲ 39
Nickel	ppm	ASTM D5185m	>10	4	4	2
Titanium	ppm	ASTM D5185m		15	11	8
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>40	● 243	● 150	● 105
Lead	ppm	ASTM D5185m	>15	1	<1	<1
Copper	ppm	ASTM D5185m	>40	4	3	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 495	▲ 367	▲ 290
Potassium	ppm	ASTM D5185m	>20	42	35	27
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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	10	12	10
Boron	ppm	ASTM D5185m		0	2	1
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		5	6	4
Manganese	ppm	ASTM D5185m		8	8	5
Magnesium	ppm	ASTM D5185m		24	23	16
Calcium	ppm	ASTM D5185m	87	176	116	127
Phosphorus	ppm	ASTM D5185m	727	598	522	592
Zinc	ppm	ASTM D5185m	900	837	805	726
Sulfur	ppm	ASTM D5185m	1500	2138	3251	2524
Visc @ 40°C	cSt	ASTM D445	65	61.5	57.9	58.1

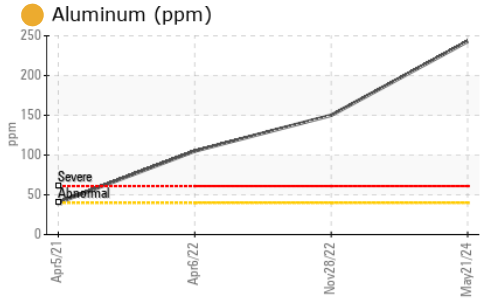
Silicon (ppm)



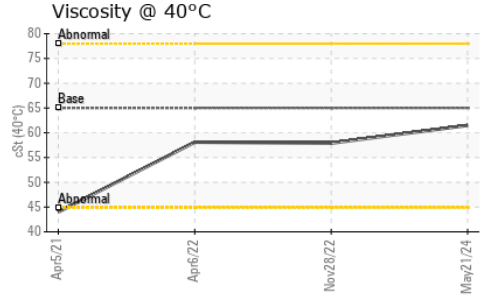
Ferrous Alloys



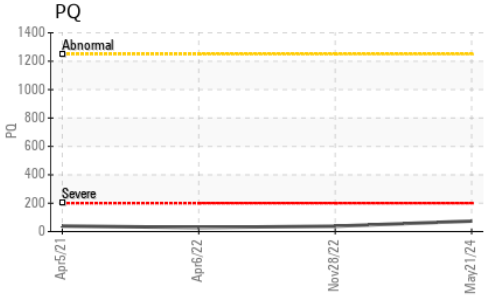
Aluminum (ppm)



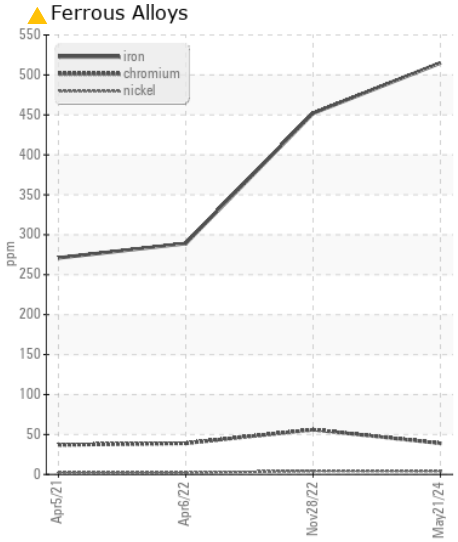
Viscosity @ 40°C



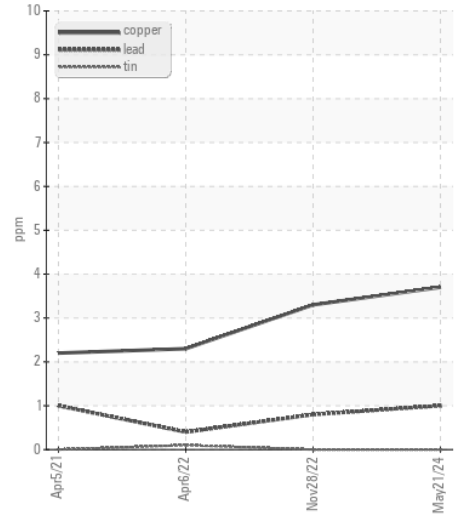
PQ



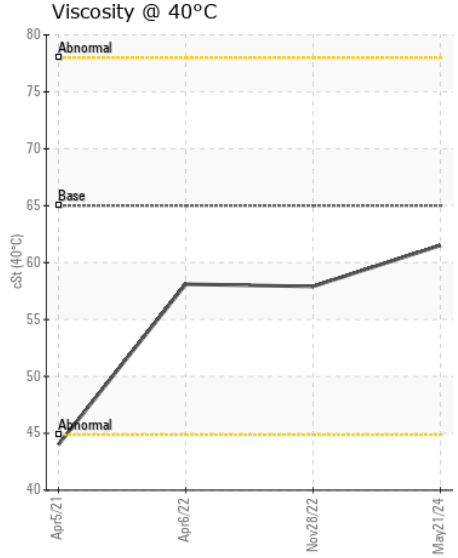
Ferrous Alloys



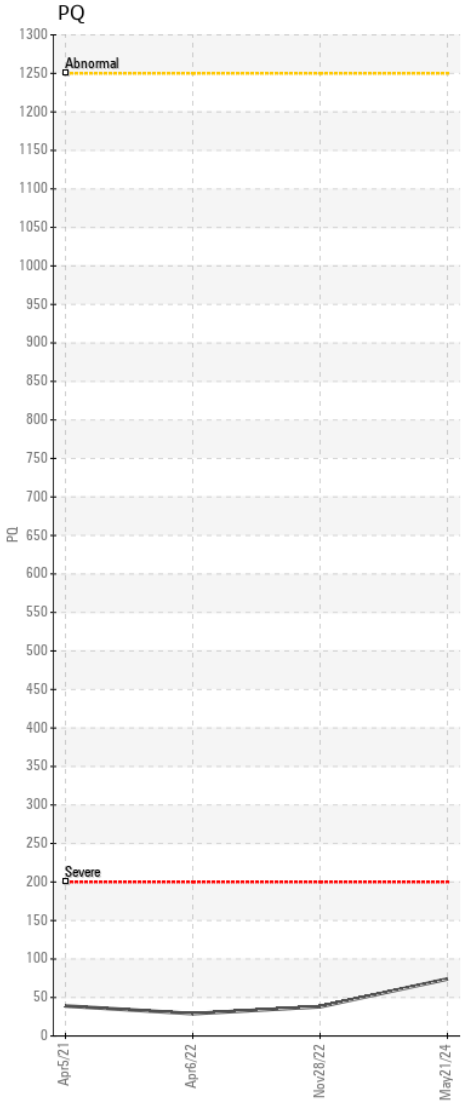
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207753
Lab Number : 06192523
Unique Number : 11049275
Test Package : CONST (Additional Tests: PQ)

Received : 28 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Don Baldridge

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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