James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 317G 1T0317GJLJJ328487
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

Gear wear is indicated.

CONTAMINATION

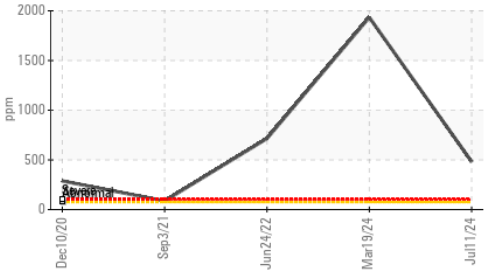
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

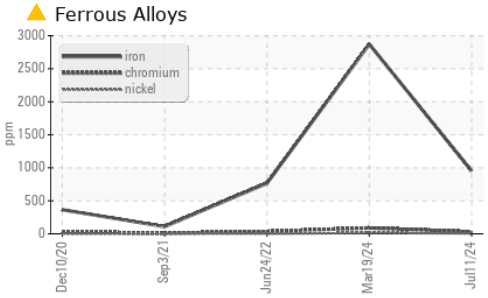
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218876	JR0207974	JR0135600
Sample Date		Client Info		11 Jul 2024	19 Mar 2024	24 Jun 2022
Machine Age	hrs	Client Info		4249	3818	2827
Oil Age	hrs	Client Info		431	991	987
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	SEVERE	SEVERE
PQ		ASTM D8184	>1250	126	397	80
Iron	ppm	ASTM D5185m	>750	▲ 951	▲ 2871	▲ 766
Chromium	ppm	ASTM D5185m	>9	▲ 30	▲ 89	▲ 35
Nickel	ppm	ASTM D5185m	>10	4	▲ 12	2
Titanium	ppm	ASTM D5185m		13	45	▲ 18
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	● 225	● 826	● 120
Lead	ppm	ASTM D5185m	>15	1	<1	1
Copper	ppm	ASTM D5185m	>40	6	8	5
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	▲ 482	▲ 1934	▲ 715
Potassium	ppm	ASTM D5185m	>20	50	182	74
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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	13	58	20
Boron	ppm	ASTM D5185m		0	2	0
Barium	ppm	ASTM D5185m		0	6	3
Molybdenum	ppm	ASTM D5185m		5	11	4
Manganese	ppm	ASTM D5185m		8	30	13
Magnesium	ppm	ASTM D5185m		29	84	38
Calcium	ppm	ASTM D5185m	87	195	186	92
Phosphorus	ppm	ASTM D5185m	727	650	584	553
Zinc	ppm	ASTM D5185m	900	852	774	725
Sulfur	ppm	ASTM D5185m	1500	1693	2153	2066
Visc @ 40°C	cSt	ASTM D445	65	54.1	63.0	60.1

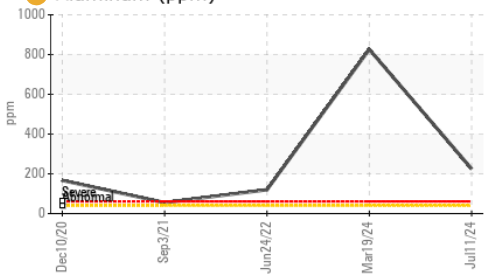
Silicon (ppm)



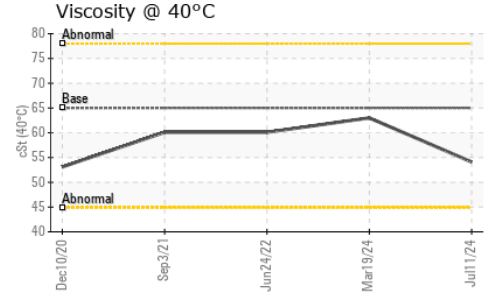
Ferrous Alloys



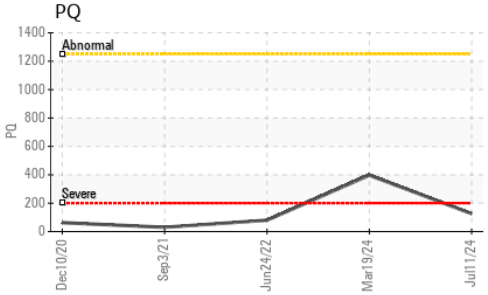
Aluminum (ppm)



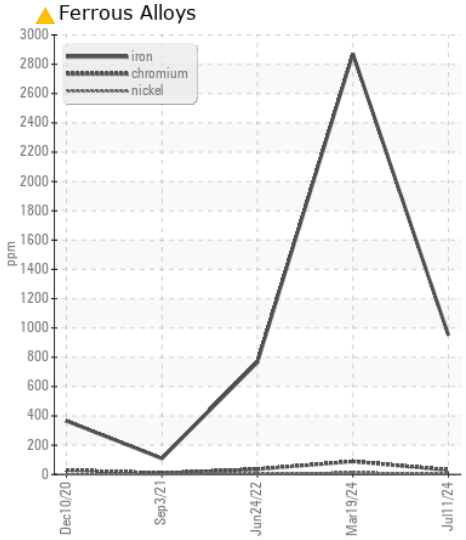
Viscosity @ 40°C



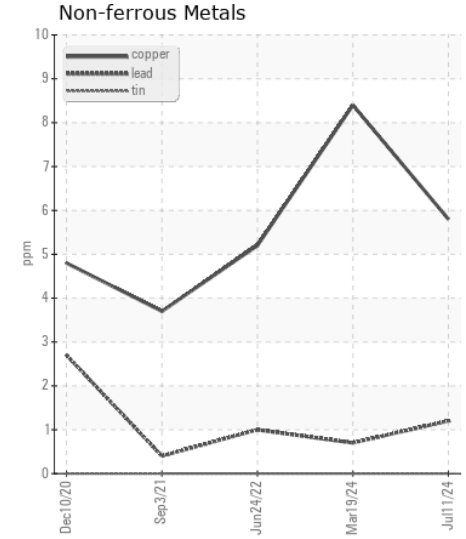
PQ



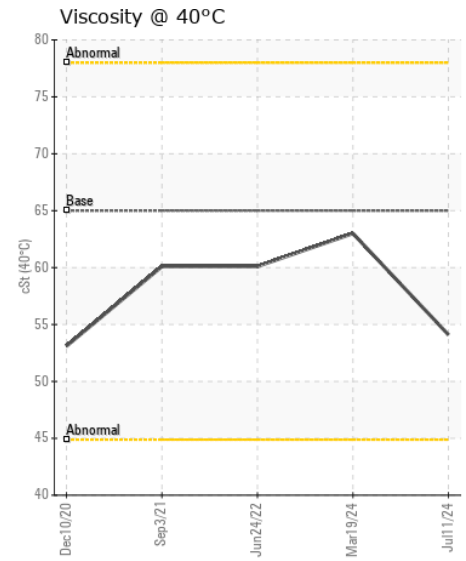
Ferrous Alloys



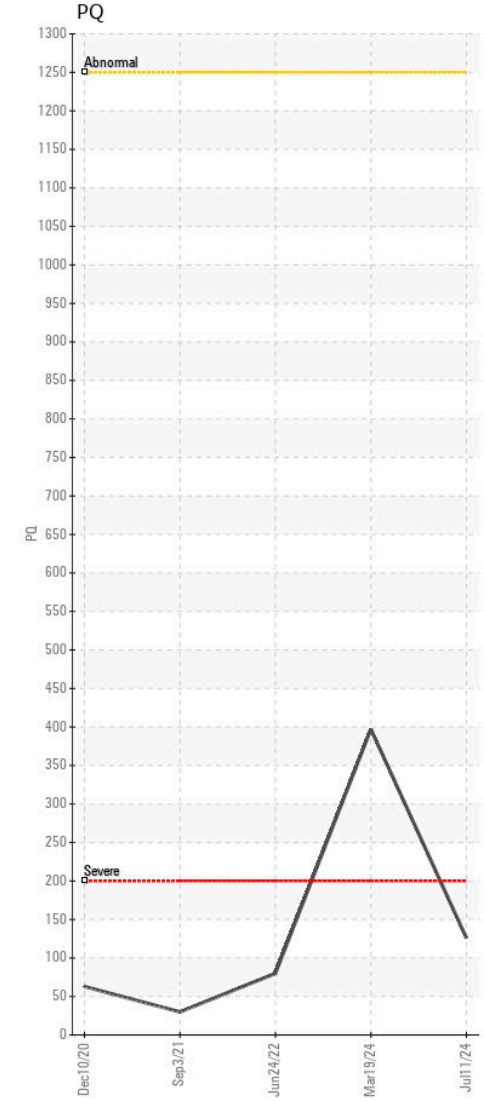
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218876 **Received** : 12 Jul 2024
Lab Number : 06235202 **Tested** : 15 Jul 2024
Unique Number : 11124036 **Diagnosed** : 16 Jul 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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