CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[W68398-6]

Machine Id

1T0317GJLKJ357392

Component

Right Brake

Fluid

JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. The chromium level is abnormal. All other metal levels are typical for a new component breaking in.

CONTAMINATION

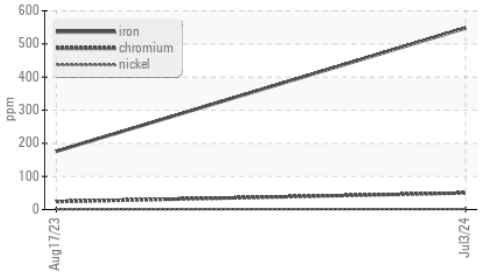
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

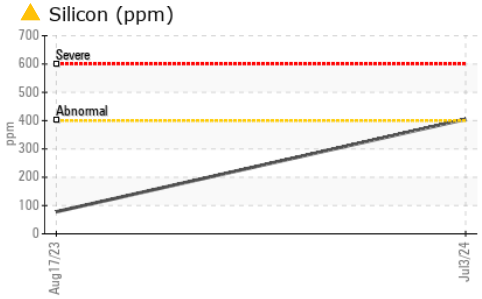
The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0220085	JR0178641	---
Sample Date		Client Info		03 Jul 2024	17 Aug 2023	---
Machine Age	hrs	Client Info		1142	577	---
Oil Age	hrs	Client Info		1142	577	---
Filter Age	hrs	Client Info		0	577	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		N/A	None	---
Sample Status				ABNORMAL	NORMAL	---
PQ		ASTM D8184		56	34	---
Iron	ppm	ASTM D5185m	>350	▲ 548	176	---
Chromium	ppm	ASTM D5185m	>5	▲ 50	24	---
Nickel	ppm	ASTM D5185m	>5	1	<1	---
Titanium	ppm	ASTM D5185m		14	2	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>8	● 263	26	---
Lead	ppm	ASTM D5185m	>10	0	<1	---
Copper	ppm	ASTM D5185m	>150	4	3	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>400	▲ 405	78	---
Potassium	ppm	ASTM D5185m	>20	28	4	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		13	7	---
Boron	ppm	ASTM D5185m		<1	0	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		5	2	---
Manganese	ppm	ASTM D5185m		11	5	---
Magnesium	ppm	ASTM D5185m		14	6	---
Calcium	ppm	ASTM D5185m	87	119	128	---
Phosphorus	ppm	ASTM D5185m	727	214	217	---
Zinc	ppm	ASTM D5185m	900	468	393	---
Sulfur	ppm	ASTM D5185m	1500	7672	7084	---
Visc @ 40°C	cSt	ASTM D445	65	44.0	44.1	---

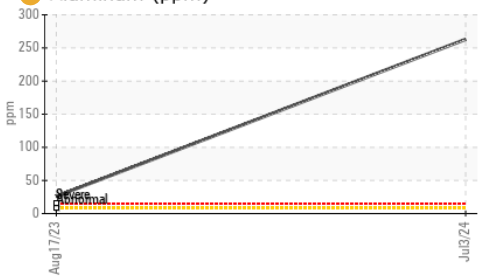
Ferrous Alloys



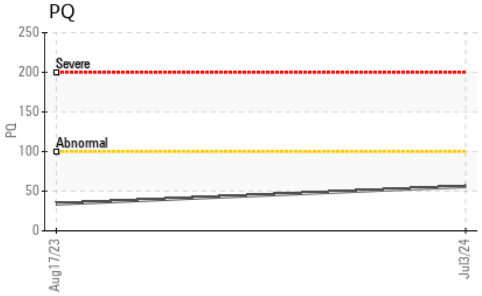
Silicon (ppm)



Aluminum (ppm)

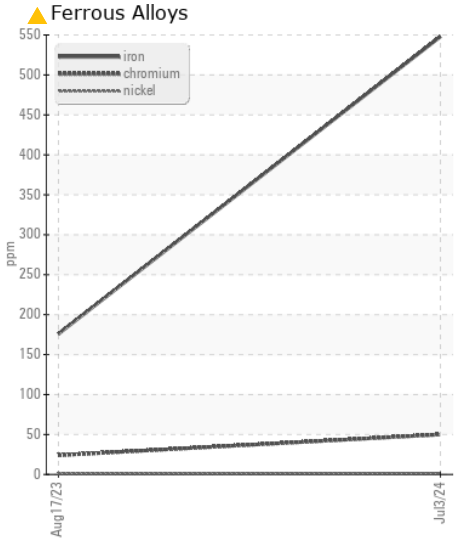


PQ

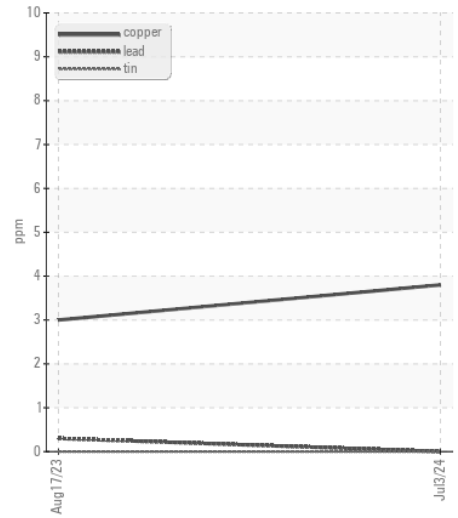


Viscosity @ 40°C

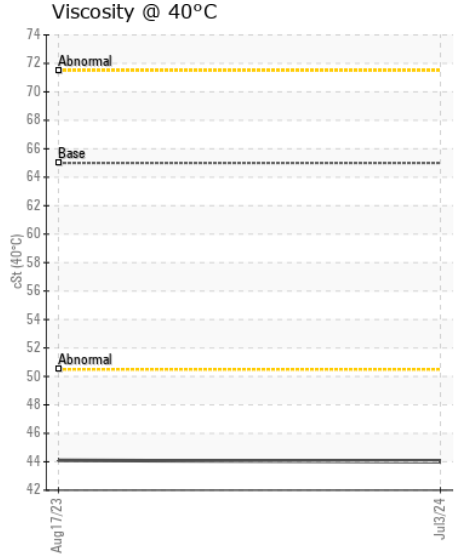
Ferrous Alloys



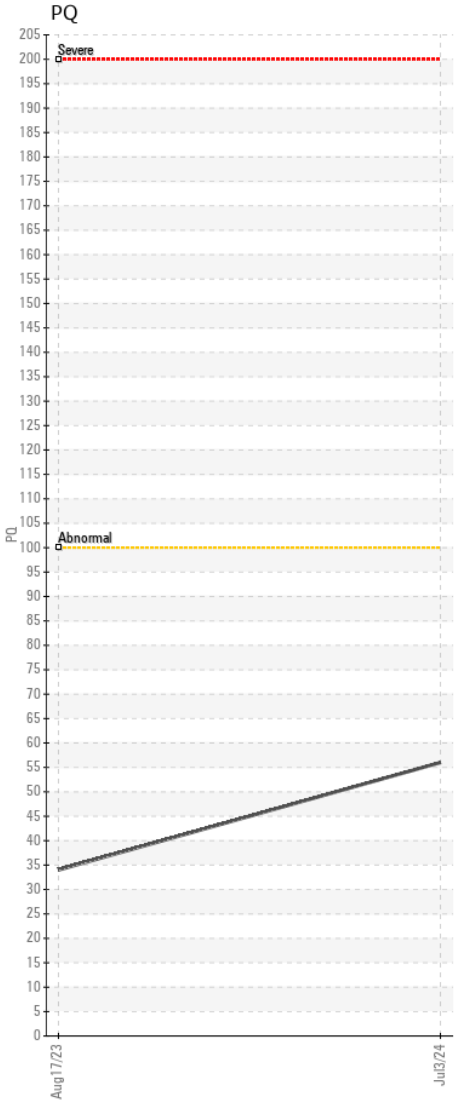
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220085
Lab Number : 06231665
Unique Number : 11115158
Test Package : CONST (Additional Tests: PQ)

Received : 09 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 11 Jul 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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