James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 4066R 1LV4066RCJJ403521
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

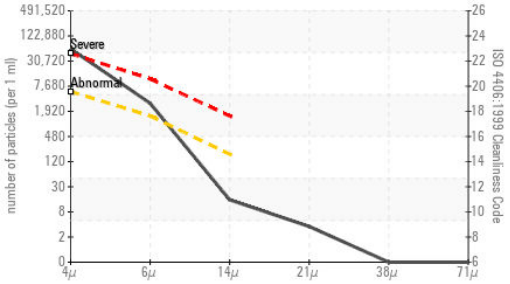
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

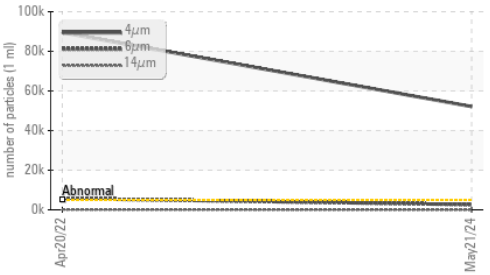
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204215	JR0114772	---
Sample Date		Client Info		21 May 2024	20 Apr 2022	---
Machine Age	hrs	Client Info		510	307	---
Oil Age	hrs	Client Info		0	307	---
Filter Age	hrs	Client Info		0	307	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---
PQ		ASTM D8184		22	20	---
Iron	ppm	ASTM D5185m	>20	40	35	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		4	3	---
Aluminum	ppm	ASTM D5185m	>10	2	2	---
Lead	ppm	ASTM D5185m	>10	6	6	---
Copper	ppm	ASTM D5185m	>75	54	47	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	LIGHT	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	8	6	---
Potassium	ppm	ASTM D5185m	>20	<1	3	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 52116	▲ 89470	---
Particles >6µm		ASTM D7647	>1300	▲ 2614	▲ 5705	---
Particles >14µm		ASTM D7647	>160	13	105	---
Particles >21µm		ASTM D7647	>40	3	37	---
Particles >38µm		ASTM D7647	>10	0	9	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/19/11	▲ 24/20/14	---
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	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m		5	3	---
Boron	ppm	ASTM D5185m		6	8	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	<1	---
Manganese	ppm	ASTM D5185m		2	2	---
Magnesium	ppm	ASTM D5185m		87	80	---
Calcium	ppm	ASTM D5185m		3004	2978	---
Phosphorus	ppm	ASTM D5185m		1022	954	---
Zinc	ppm	ASTM D5185m		1211	1169	---
Sulfur	ppm	ASTM D5185m		4334	3069	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.22	1.14	---
Visc @ 40°C	cSt	ASTM D445	32	37.1	32.1	---

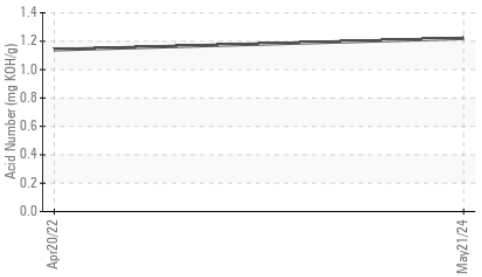
Particle Count



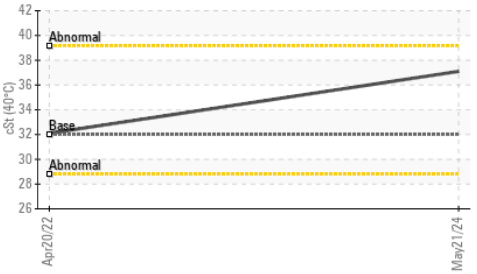
Particle Trend



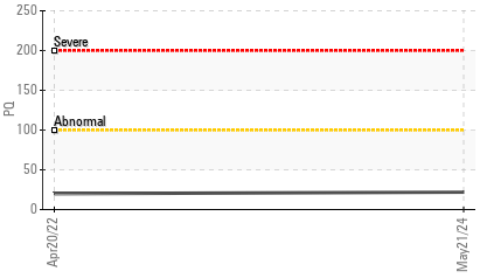
Acid Number



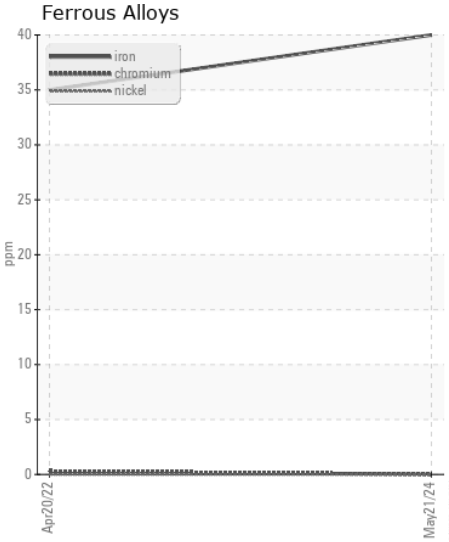
Viscosity @ 40°C



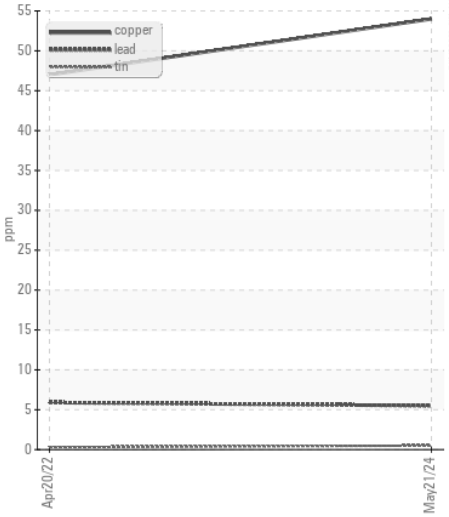
PQ



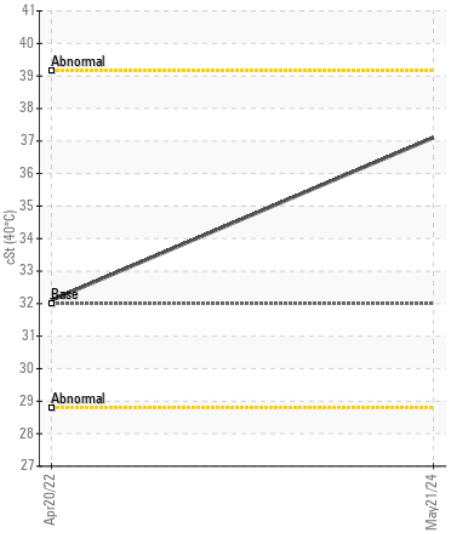
Ferrous Alloys



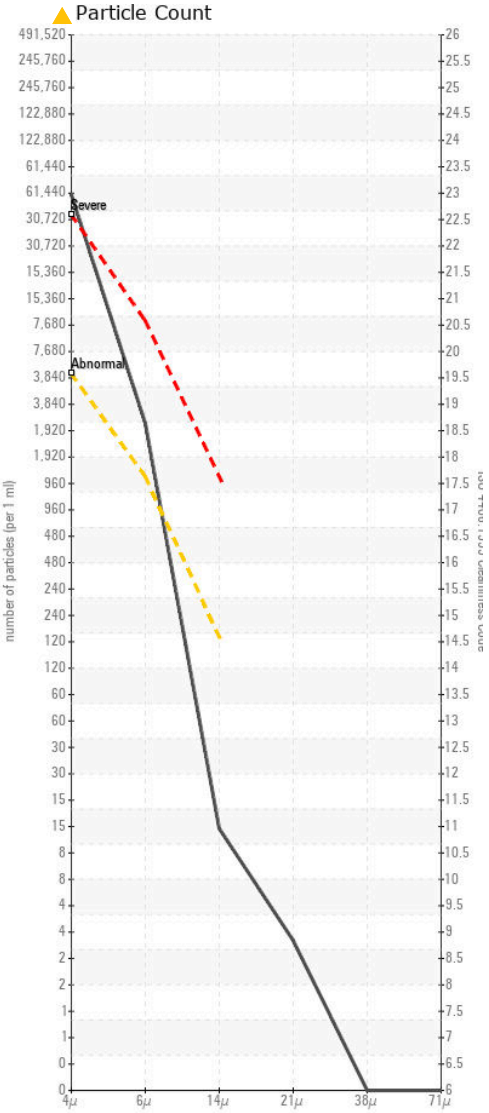
Non-ferrous Metals



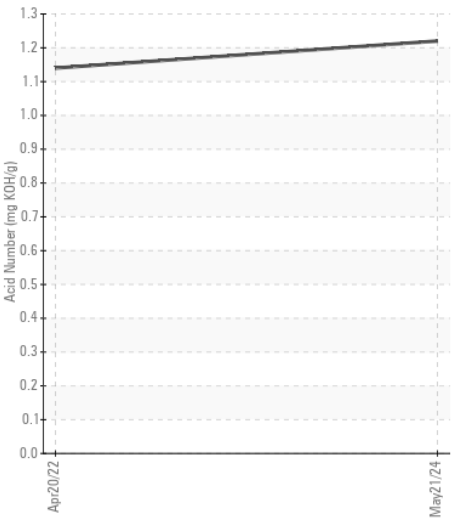
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204215 **Received** : 28 May 2024
Lab Number : 06192093 **Tested** : 29 May 2024
Unique Number : 11048845 **Diagnosed** : 30 May 2024 - Angela Borella
Test Package : CONST (Additional Tests: PQ)

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)

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