James River Equipment

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 772GP 1DW772GPCKF702581
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

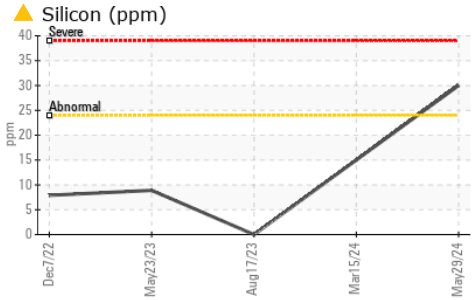
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

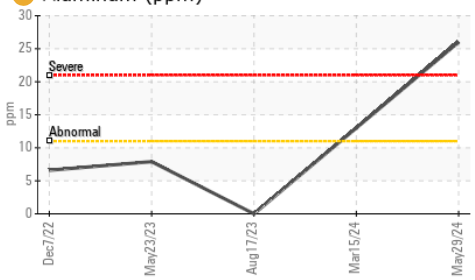
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212618	JR0209427	JR0181694
Sample Date		Client Info		29 May 2024	15 Mar 2024	17 Aug 2023
Machine Age	hrs	Client Info		4273	3972	3085
Oil Age	hrs	Client Info		301	3972	3085
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
PQ		ASTM D8184	>50	19	15	12
Iron	ppm	ASTM D5185m	>71	43	18	0
Chromium	ppm	ASTM D5185m	>11	8	3	0
Nickel	ppm	ASTM D5185m	>6	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>11	● 26	▲ 13	0
Lead	ppm	ASTM D5185m	>13	1	0	0
Copper	ppm	ASTM D5185m	>21	18	10	<1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>24	▲ 30	15	0
Potassium	ppm	ASTM D5185m	>20	5	2	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	4370	3180	2788
Particles >6µm		ASTM D7647	>5000	161	157	697
Particles >14µm		ASTM D7647	>640	16	14	38
Particles >21µm		ASTM D7647	>160	3	4	10
Particles >38µm		ASTM D7647	>40	1	1	1
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	19/15/11	19/14/11	19/17/12
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	>21	3	3	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		4	1	3
Calcium	ppm	ASTM D5185m		143	82	143
Phosphorus	ppm	ASTM D5185m		896	580	662
Zinc	ppm	ASTM D5185m		1397	873	863
Sulfur	ppm	ASTM D5185m		2666	1892	2201
Acid Number (AN)	mg KOH/g	ASTM D8045		1.01	0.97	0.83
Visc @ 40°C	cSt	ASTM D445		53.8	54.1	62.1

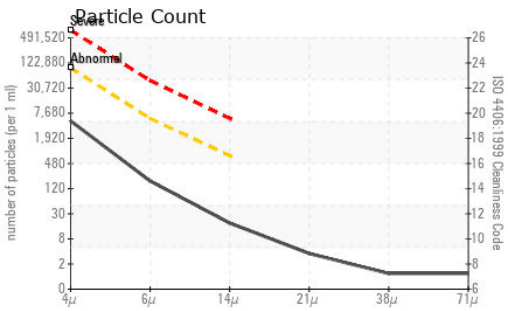
Silicon (ppm)



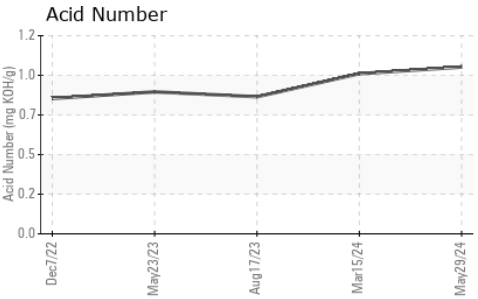
Aluminum (ppm)



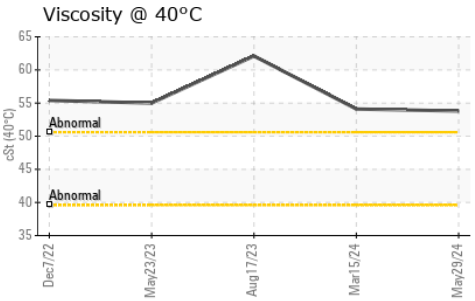
Particle Count



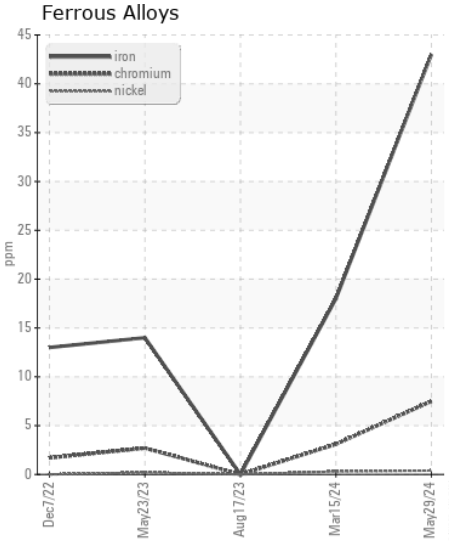
Acid Number



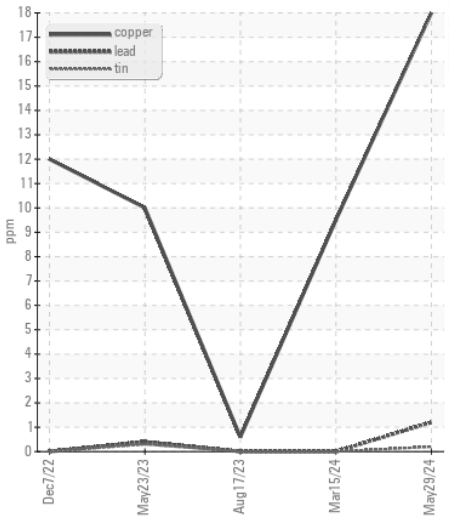
Viscosity @ 40°C



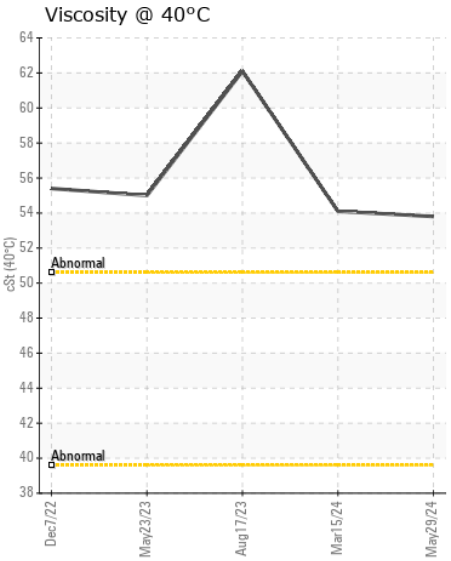
Ferrous Alloys



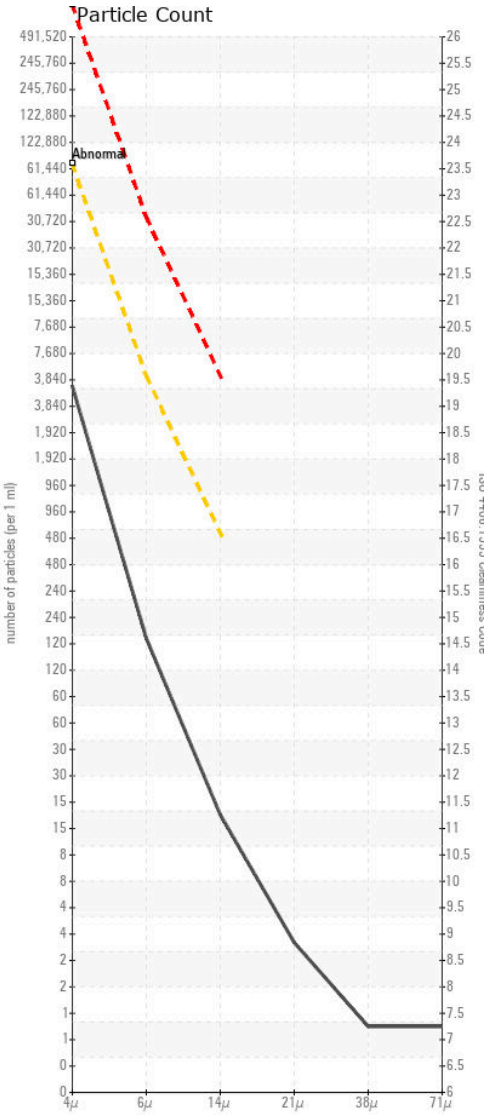
Non-ferrous Metals



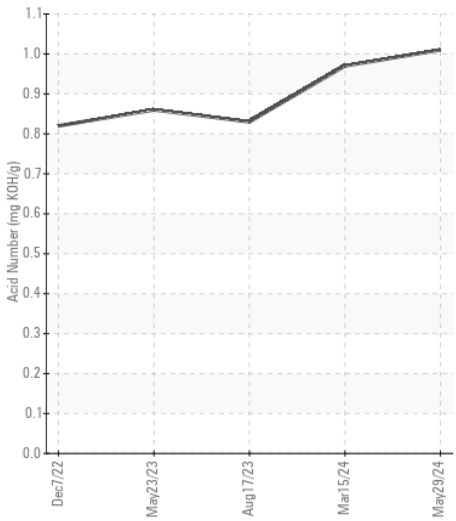
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212618
Lab Number : 06195303
Unique Number : 11057426
Test Package : CONST (Additional Tests: PQ)

Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 01 Jun 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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