James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 772G 1DW772GPTEF666356
Component
Hydraulic System
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (16 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

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

CONTAMINATION

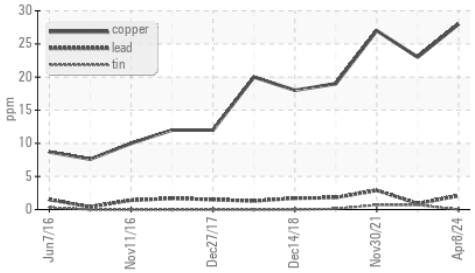
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

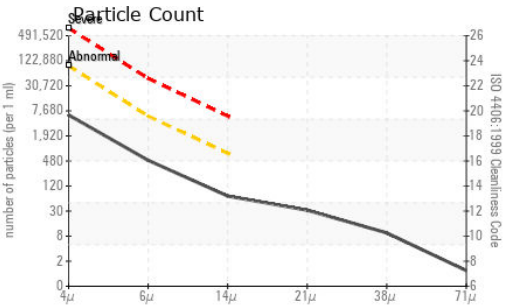
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0209239	JR0164765	JR0106293
Sample Date		Client Info		08 Apr 2024	25 May 2023	30 Nov 2021
Machine Age	hrs	Client Info		4823	4380	3497
Oil Age	hrs	Client Info		0	433	0
Filter Age	hrs	Client Info		0	433	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>50	19	16	18
Iron	ppm	ASTM D5185m	>71	17	18	24
Chromium	ppm	ASTM D5185m	>11	1	1	1
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		3	3	4
Aluminum	ppm	ASTM D5185m	>11	5	6	6
Lead	ppm	ASTM D5185m	>13	2	<1	3
Copper	ppm	ASTM D5185m	>21	▲ 28	23	▲ 27
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>24	11	13	15
Potassium	ppm	ASTM D5185m	>20	9	3	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	5323	---	45269
Particles >6µm		ASTM D7647	>5000	437	---	857
Particles >14µm		ASTM D7647	>640	61	---	80
Particles >21µm		ASTM D7647	>160	28	---	43
Particles >38µm		ASTM D7647	>40	8	---	8
Particles >71µm		ASTM D7647	>10	1	---	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	20/16/13	---	23/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	5	3	2
Boron	ppm	ASTM D5185m		114	134	34
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		93	104	27
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		395	492	291
Calcium	ppm	ASTM D5185m		1690	1907	2114
Phosphorus	ppm	ASTM D5185m		820	952	1011
Zinc	ppm	ASTM D5185m		943	1186	1185
Sulfur	ppm	ASTM D5185m		3167	3977	2935
Acid Number (AN)	mg KOH/g	ASTM D8045		1.28	1.37	1.134
Visc @ 40°C	cSt	ASTM D445	117	65.1	66.0	57.2

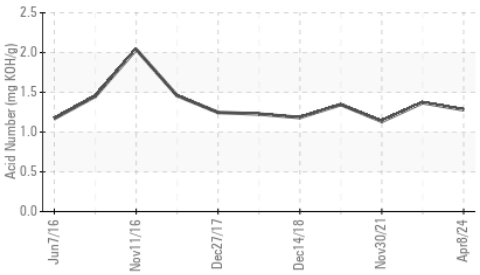
Non-ferrous Metals



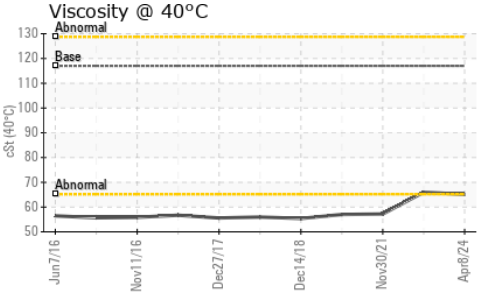
Particle Count



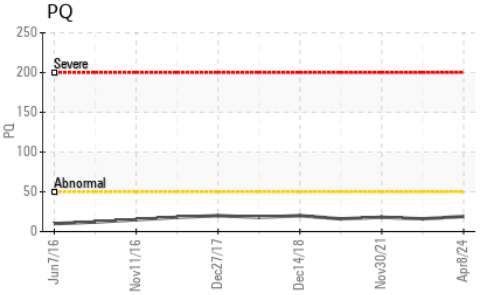
Acid Number



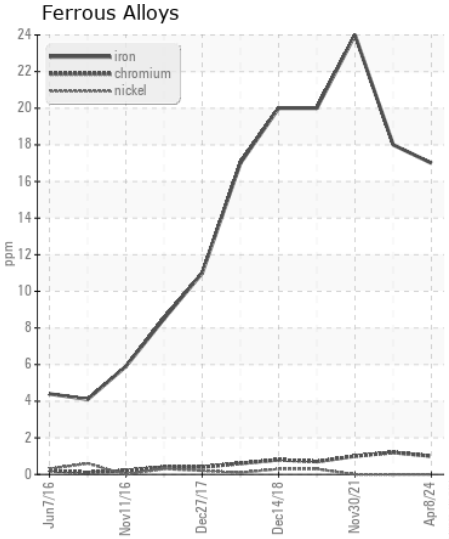
Viscosity @ 40°C



PQ



Ferrous Alloys



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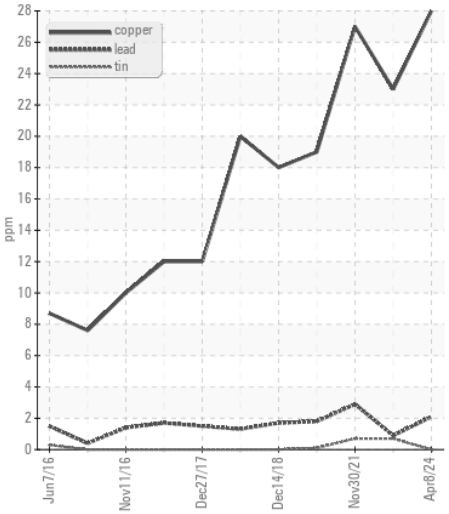

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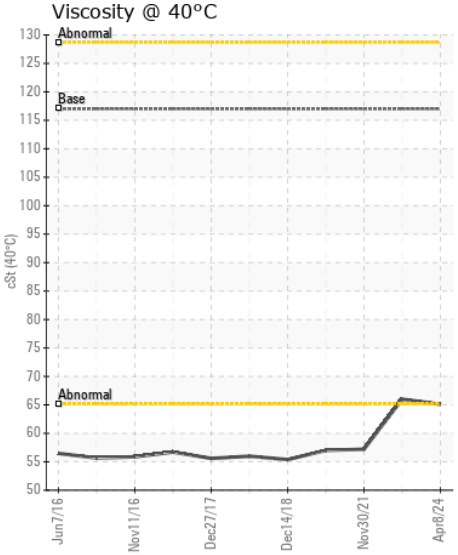
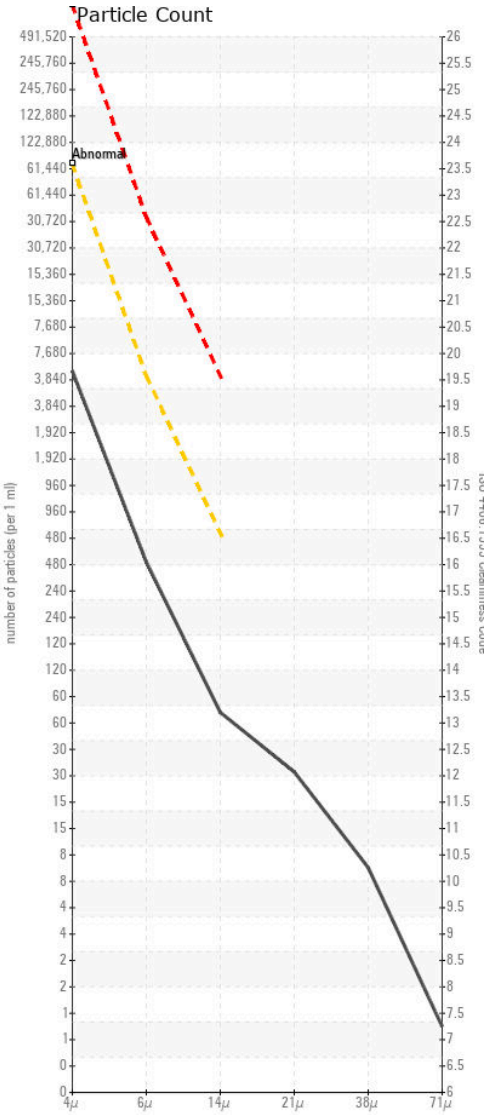
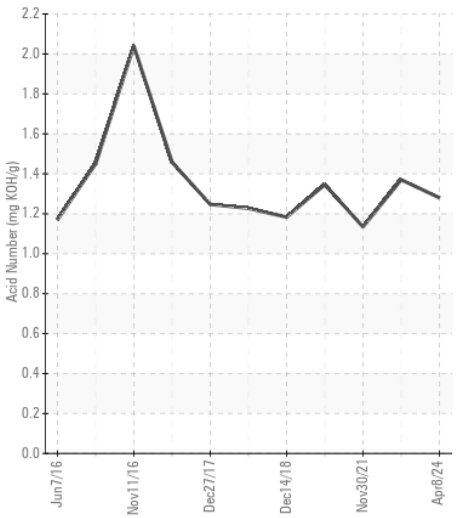


Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0209239
Lab Number : 06151886
Unique Number : 10981964
Test Package : CONST (Additional Tests: PQ)

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 19 Apr 2024 - Don Baldridge

NATIONAL QUARRY SERVICE
4189 NC 87 SOUTH
MONCURE, NC
US 27012
Contact: MATT JUSTICE

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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