James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 1025R 1LV1025RCJJ168650
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

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

CONTAMINATION

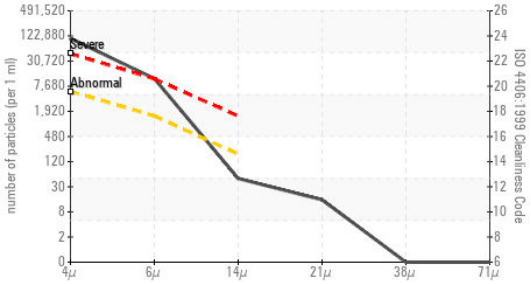
There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

FLUID CONDITION

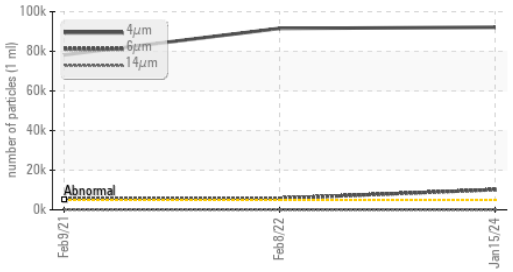
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189781	JR0093373	JR0048285
Sample Date		Client Info		15 Jan 2024	08 Feb 2022	09 Feb 2021
Machine Age	hrs	Client Info		96	62	53
Oil Age	hrs	Client Info		0	0	53
Filter Age	hrs	Client Info		0	0	53
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		16	19	24
Iron	ppm	ASTM D5185m	>20	▲ 39	20	14
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	5
Aluminum	ppm	ASTM D5185m	>10	2	3	3
Lead	ppm	ASTM D5185m	>10	3	3	2
Copper	ppm	ASTM D5185m	>75	38	25	16
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	▲ 35	▲ 28	▲ 26
Potassium	ppm	ASTM D5185m	>20	3	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 92143	▲ 91582	▲ 78200
Particles >6µm		ASTM D7647	>1300	▲ 10190	▲ 5797	▲ 5846
Particles >14µm		ASTM D7647	>160	42	40	31
Particles >21µm		ASTM D7647	>40	13	7	4
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/21/13	▲ 24/20/12	▲ 23/20/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	3	5
Boron	ppm	ASTM D5185m		0	2	4
Barium	ppm	ASTM D5185m		9	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		106	113	102
Calcium	ppm	ASTM D5185m		3367	3736	3511
Phosphorus	ppm	ASTM D5185m		1068	1071	1024
Zinc	ppm	ASTM D5185m		1253	1265	1189
Sulfur	ppm	ASTM D5185m		4087	3211	3087
Acid Number (AN)	mg KOH/g	ASTM D8045		1.29	1.29	1.297
Visc @ 40°C	cSt	ASTM D445	32	28.7	29.2	29.3

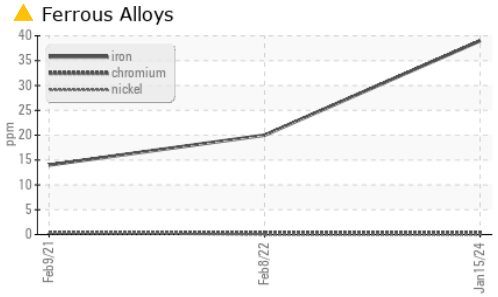
Particle Count



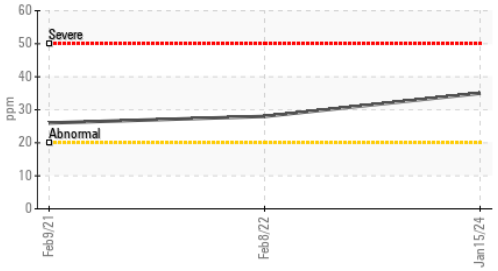
Particle Trend



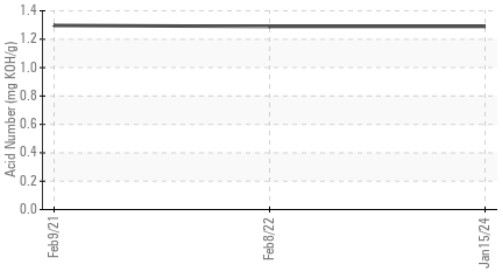
Ferrous Alloys



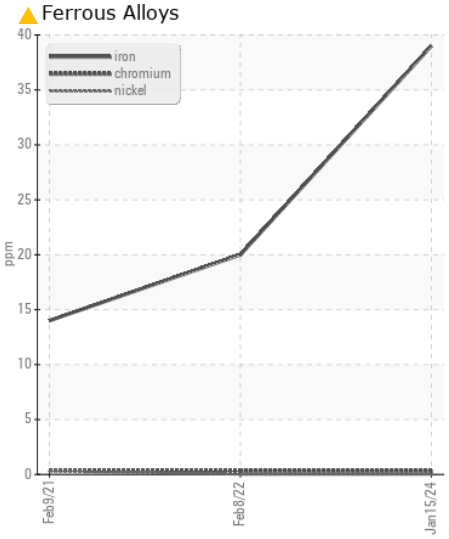
Silicon (ppm)



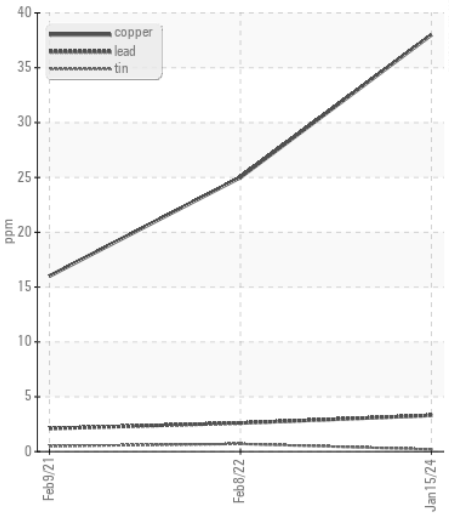
Acid Number



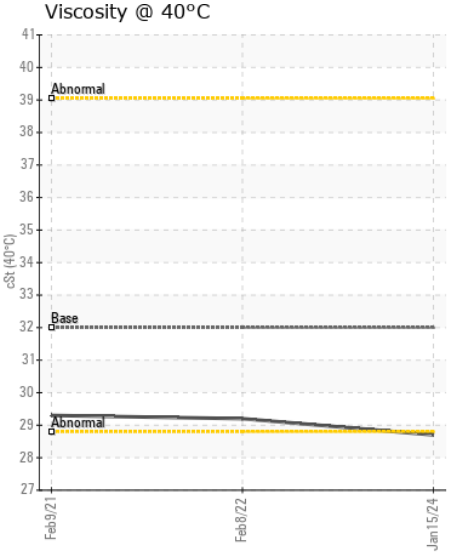
Ferrous Alloys



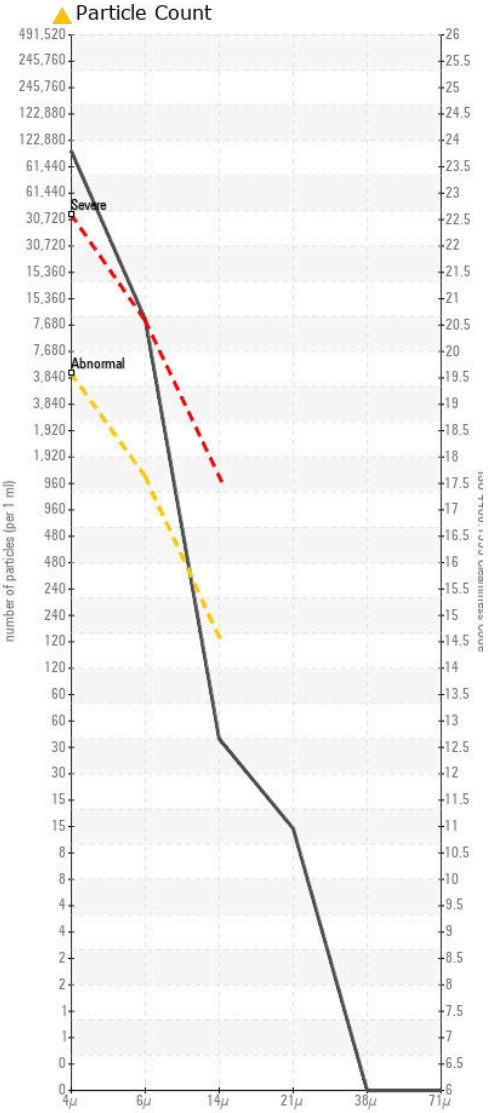
Non-ferrous Metals



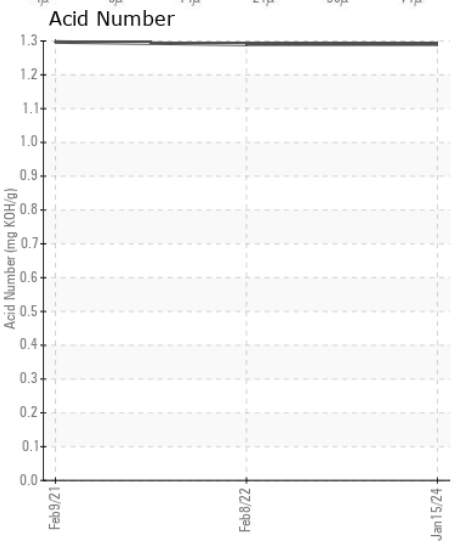
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189781 **Recieved** : 17 Jan 2024
Lab Number : 06063498 **Diagnosed** : 19 Jan 2024
Unique Number : 10834880 **Diagnostician** : Don Baldridge
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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