



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[W20912-MAYTON]

Machine Id

JOHN DEERE 3032E 1LV3032ELJJ123974

Component

Hydraulic System

Fluid

JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204394	JR0120754	JR0117555
Sample Date		Client Info		26 Jan 2024	11 Jan 2023	19 Jan 2022
Machine Age	hrs	Client Info		162	140	96
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

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

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ 57	▲ 56	▲ 43
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		2	1	2
Aluminum	ppm	ASTM D5185m	>10	4	4	3
Lead	ppm	ASTM D5185m	>10	3	3	3
Copper	ppm	ASTM D5185m	>75	52	52	46
Tin	ppm	ASTM D5185m	>10	2	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

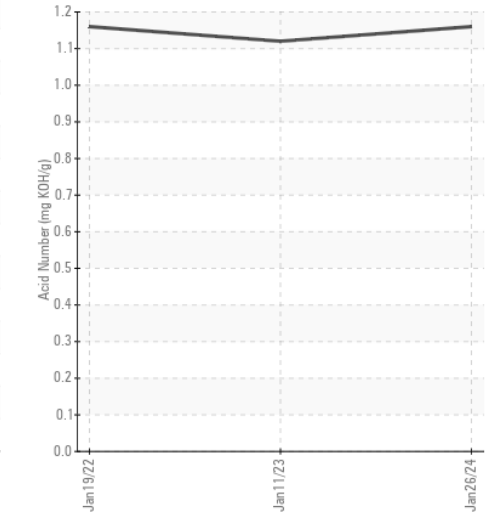
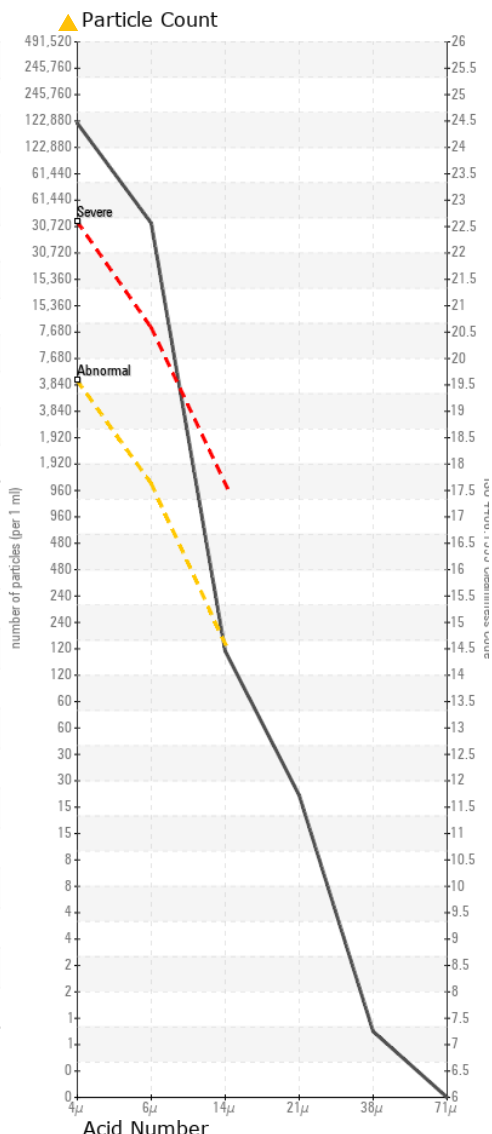
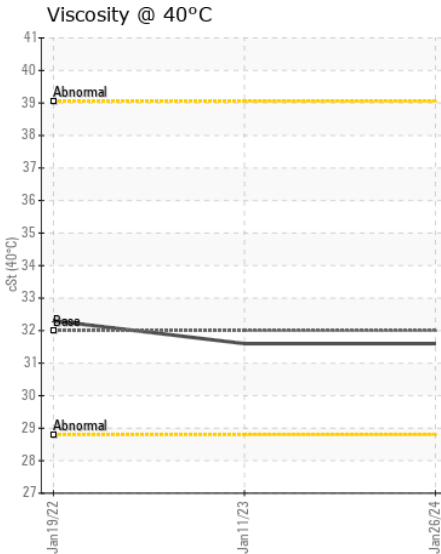
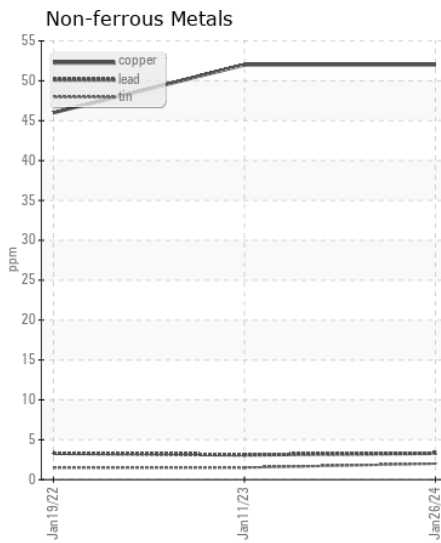
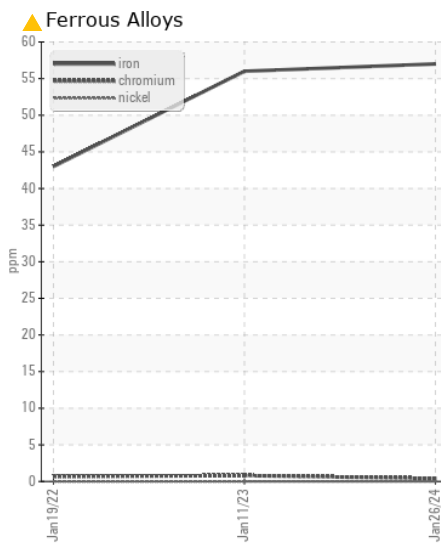
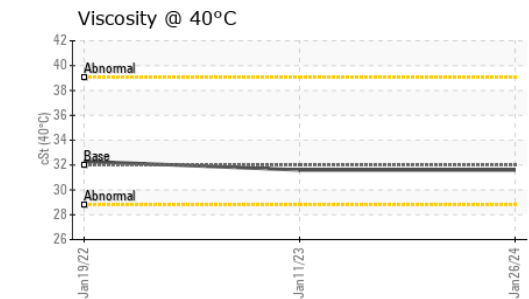
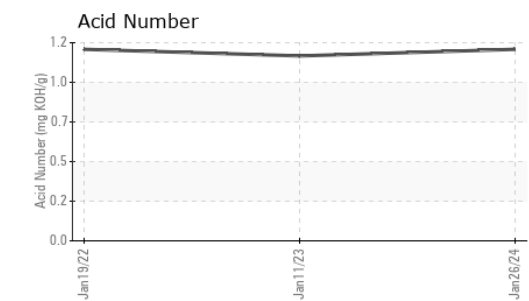
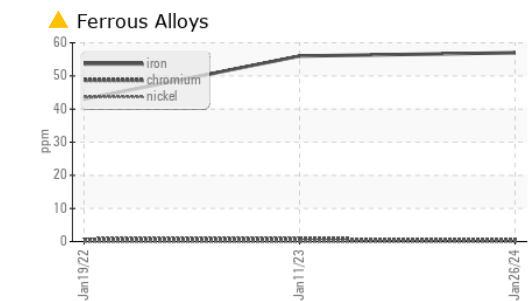
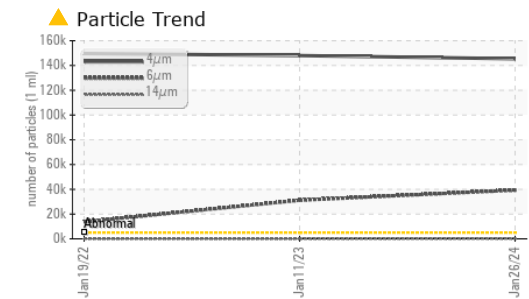
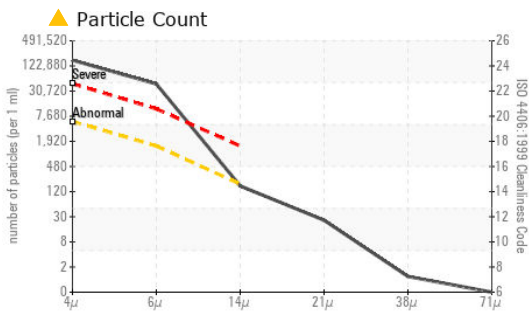
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	17	17	16
Potassium	ppm	ASTM D5185m	>20	3	6	4
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 145397	▲ 148013	▲ 149645
Particles >6µm		ASTM D7647	>1300	▲ 39306	▲ 31175	▲ 13697
Particles >14µm		ASTM D7647	>160	145	39	43
Particles >21µm		ASTM D7647	>40	22	5	10
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/14	▲ 24/22/12	▲ 24/21/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	4	5
Boron	ppm	ASTM D5185m		7	8	15
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		1	1	1
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m		94	86	92
Calcium	ppm	ASTM D5185m		3154	3276	3377
Phosphorus	ppm	ASTM D5185m		943	965	985
Zinc	ppm	ASTM D5185m		1199	1191	1212
Sulfur	ppm	ASTM D5185m		3417	3750	3257
Acid Number (AN)	mg KOH/g	ASTM D8045		1.16	1.12	1.16
Visc @ 40°C	cSt	ASTM D445	32	31.6	31.6	32.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204394 **Received** : 01 Feb 2024
Lab Number : 06077621 **Diagnosed** : 04 Feb 2024
Unique Number : 10859712 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - BURKEVILLE
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 BURKEVILLE, VA
 US 23922

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 F: (434)767-3774

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)