



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W20875-VALENTINO]
 Machine Id
JOHN DEERE 2032R 1LV2032RVHH103032
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. 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		JR0204478	JR0120718	JR0110565
Sample Date		Client Info		24 Jan 2024	10 Jan 2023	15 Dec 2021
Machine Age	hrs	Client Info		614	493	384
Oil Age	hrs	Client Info		0	0	384
Filter Age	hrs	Client Info		0	0	384
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

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

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ 29	▲ 32	26
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		4	3	4
Aluminum	ppm	ASTM D5185m	>10	3	3	3
Lead	ppm	ASTM D5185m	>10	2	2	2
Copper	ppm	ASTM D5185m	>75	54	53	48
Tin	ppm	ASTM D5185m	>10	1	1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

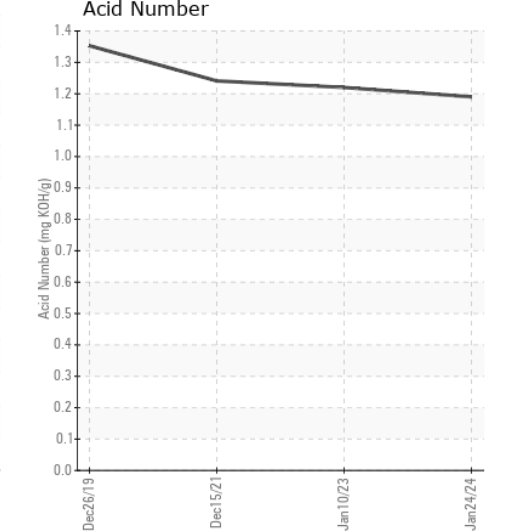
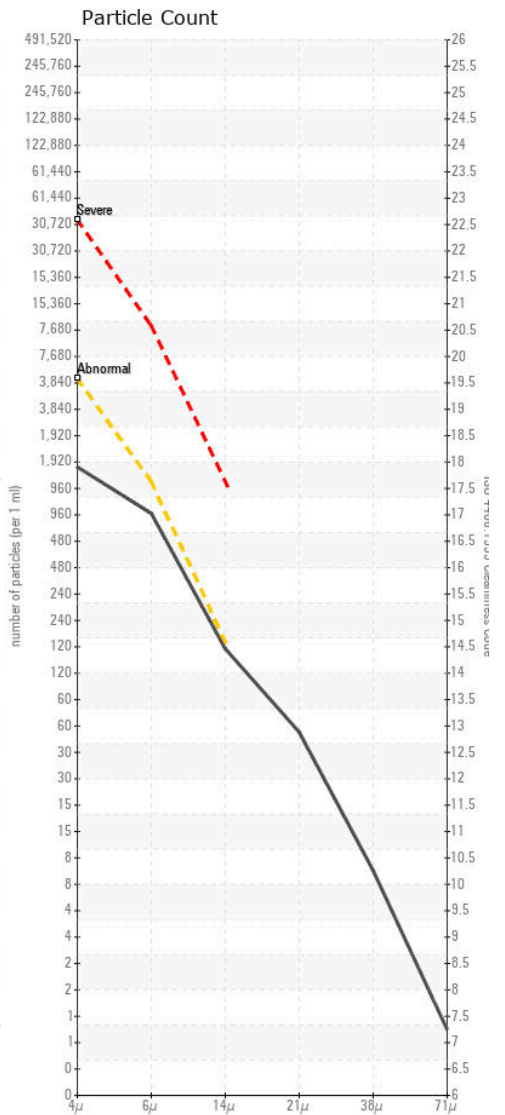
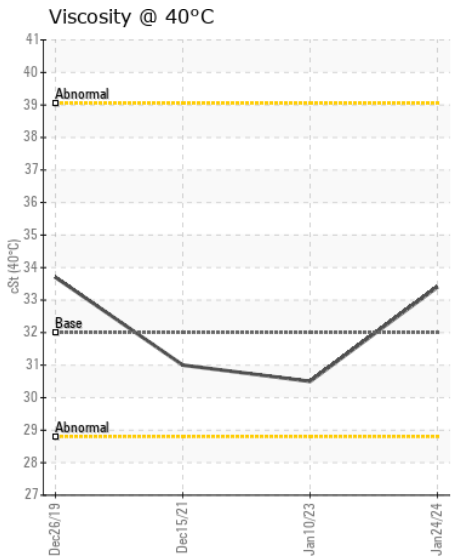
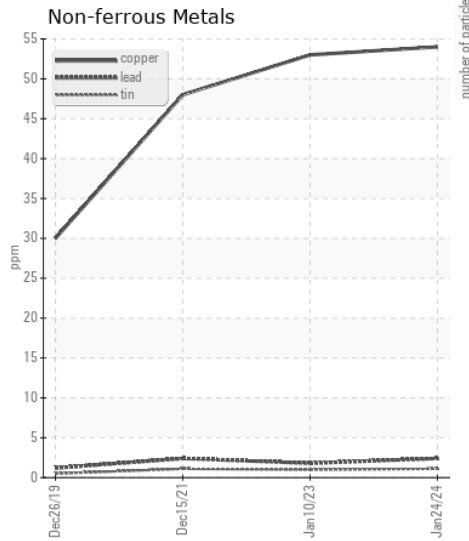
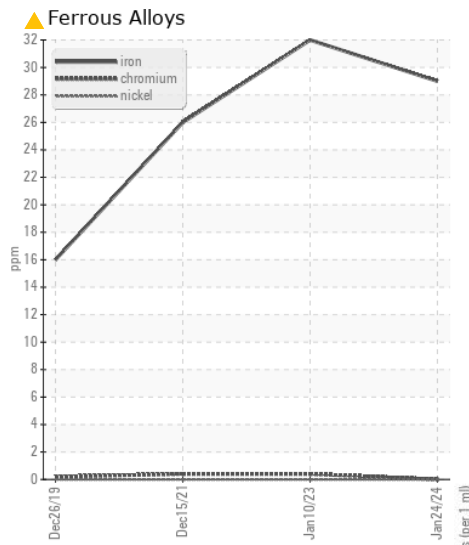
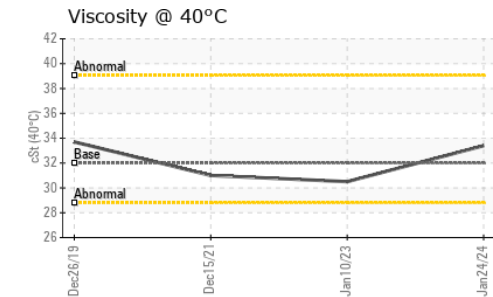
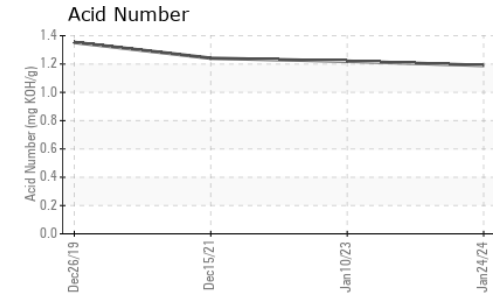
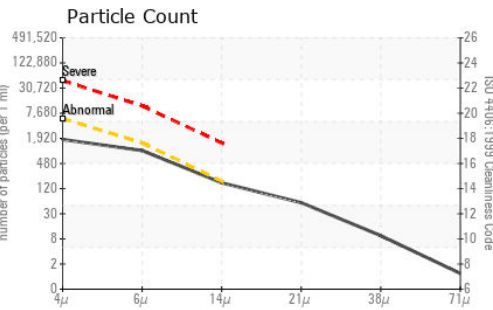
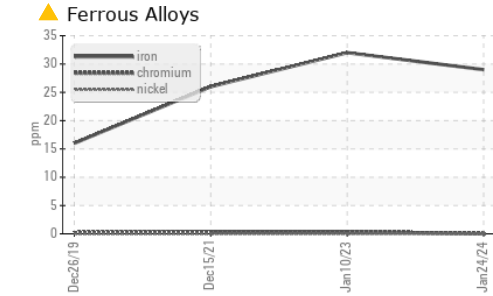
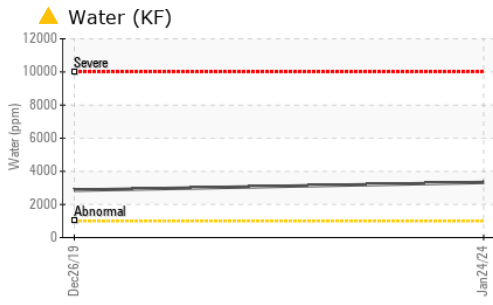
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	7	7	9
Potassium	ppm	ASTM D5185m	>20	2	5	3
Water	%	ASTM D6304	>0.1	▲ 0.333	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 3330	---	---
Particles >4µm		ASTM D7647	>5000	1575	▲ 46704	▲ 36958
Particles >6µm		ASTM D7647	>1300	858	▲ 2308	727
Particles >14µm		ASTM D7647	>160	146	98	24
Particles >21µm		ASTM D7647	>40	49	19	4
Particles >38µm		ASTM D7647	>10	8	1	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/17/14	▲ 23/18/14	▲ 22/17/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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	>0.1	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	5
Boron	ppm	ASTM D5185m		2	2	7
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		87	83	91
Calcium	ppm	ASTM D5185m		3306	3485	3615
Phosphorus	ppm	ASTM D5185m		987	1012	1066
Zinc	ppm	ASTM D5185m		1220	1234	1247
Sulfur	ppm	ASTM D5185m		3452	3507	3156
Acid Number (AN)	mg KOH/g	ASTM D8045		1.19	1.22	1.241
Visc @ 40°C	cSt	ASTM D445	32	33.4	30.5	31.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204478 **Received** : 01 Feb 2024
Lab Number : 06077618 **Diagnosed** : 07 Feb 2024
Unique Number : 10859709 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: KF, 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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