



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W11435]
 Machine Id
JOHN DEERE 6115D 1PO6115DCBH021448
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (10 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		JR0189848	JR0163989	JR0011502
Sample Date		Client Info		16 Feb 2024	06 Mar 2023	12 Sep 2019
Machine Age	hrs	Client Info		2877	2459	1554
Oil Age	hrs	Client Info		2877	2459	0
Filter Age	hrs	Client Info		2877	2459	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
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	▲ 30	13	▲ 22
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	3	0
Aluminum	ppm	ASTM D5185m	>10	2	1	5
Lead	ppm	ASTM D5185m	>10	0	<1	2
Copper	ppm	ASTM D5185m	>75	45	17	41
Tin	ppm	ASTM D5185m	>10	0	<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

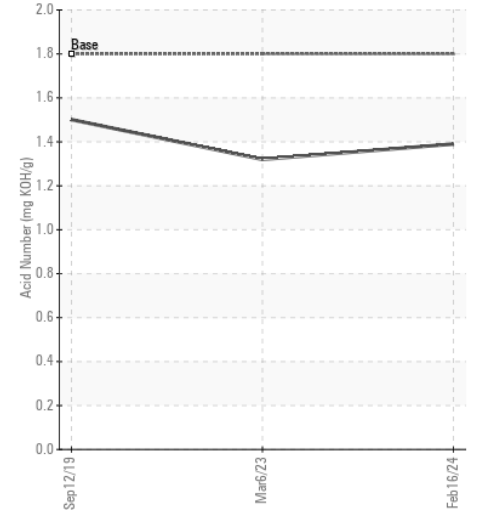
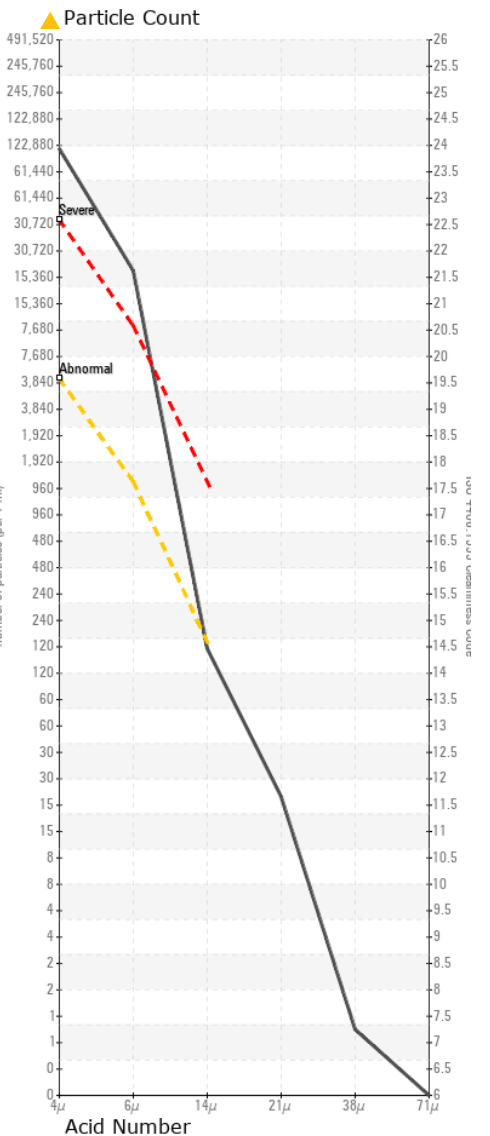
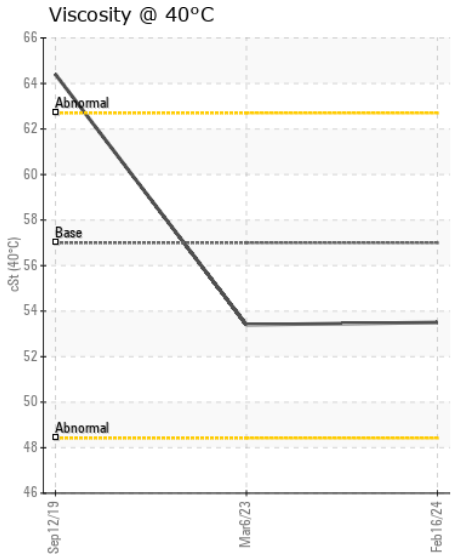
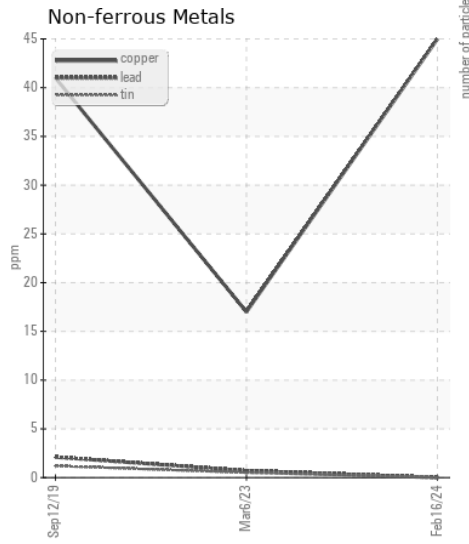
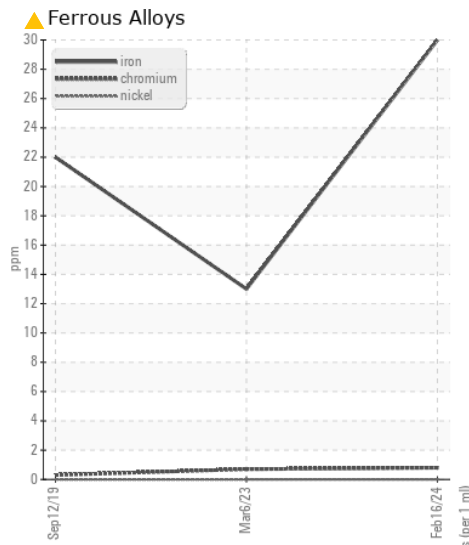
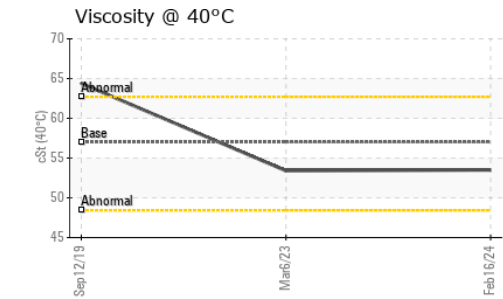
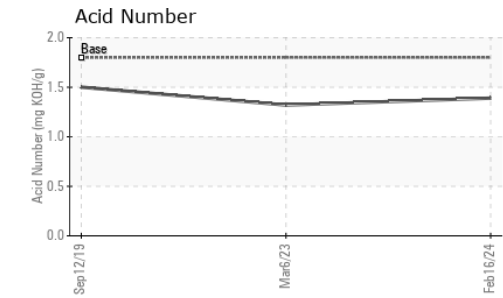
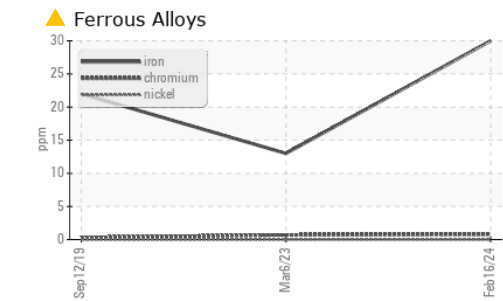
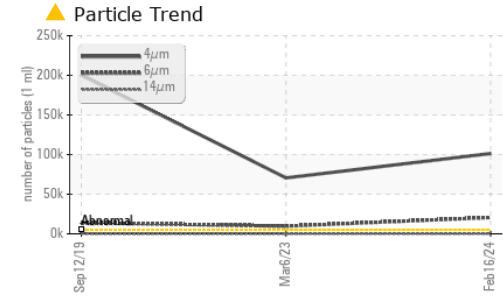
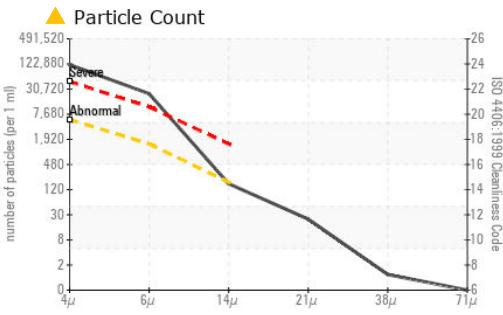
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	5	9
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 101331	▲ 70569	▲ 200211
Particles >6µm		ASTM D7647	>1300	▲ 20572	▲ 9626	▲ 14021
Particles >14µm		ASTM D7647	>160	146	93	72
Particles >21µm		ASTM D7647	>40	21	13	19
Particles >38µm		ASTM D7647	>10	1	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/14	▲ 23/20/14	▲ 25/21/13
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	>0.1	NEG	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		<1	1	5
Boron	ppm	ASTM D5185m	6	2	2	56
Barium	ppm	ASTM D5185m	0	<1	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	2	59
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m	145	100	99	376
Calcium	ppm	ASTM D5185m	3570	3301	3355	2565
Phosphorus	ppm	ASTM D5185m	1290	1020	915	952
Zinc	ppm	ASTM D5185m	1640	1208	1174	1110
Sulfur	ppm	ASTM D5185m		3252	3596	3248
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.39	1.32	1.501
Visc @ 40°C	cSt	ASTM D445	57.0	53.5	53.4	64.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189848 **Received** : 23 Feb 2024
Lab Number : 06099065 **Tested** : 26 Feb 2024
Unique Number : 10897295 **Diagnosed** : 26 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

Baxter Healthcare - Wood Boiler Biomass
 2859 OLD LINVILLE RD
 MARION, NC
 US 28752
 Contact: RICKY STYLES
 ricky_styles@baxter.com
 T: (828)756-4946
 F:

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)