



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
JOHN DEERE 35D C006686 (S/N FF035DX236215)

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (15 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. We were unable to perform a particle count due to a high concentration of particles present in this sample.

WEAR

All component wear rates are normal.

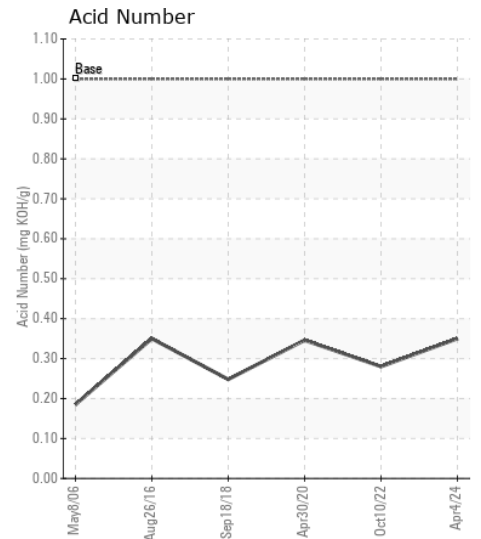
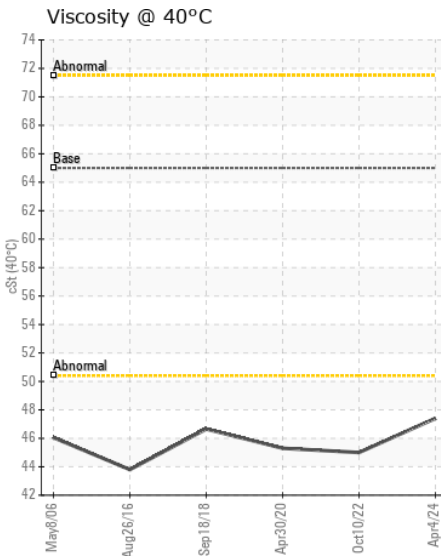
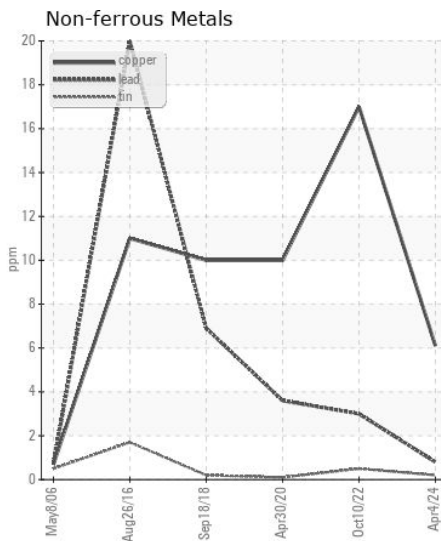
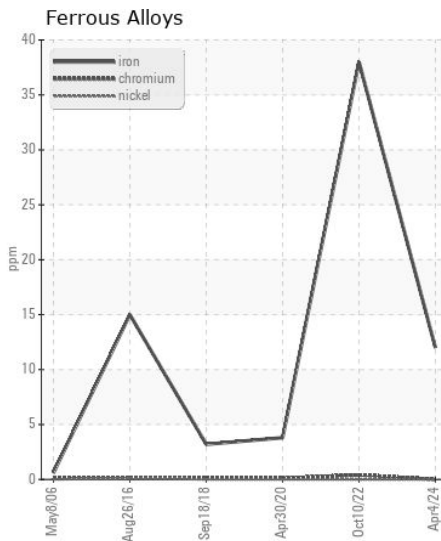
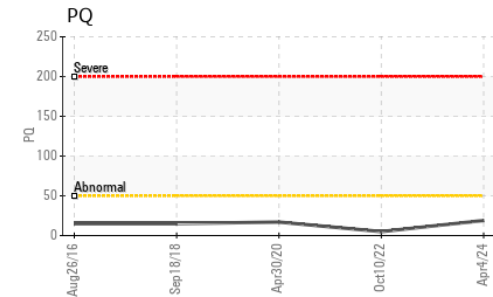
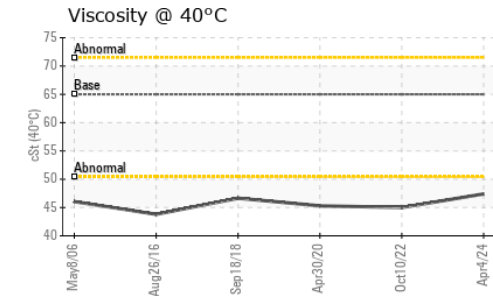
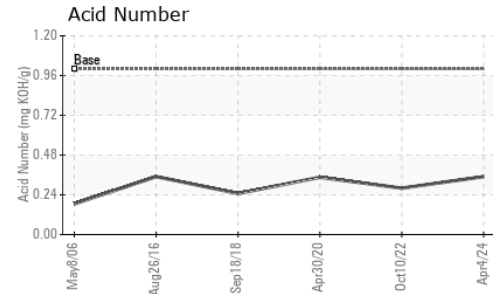
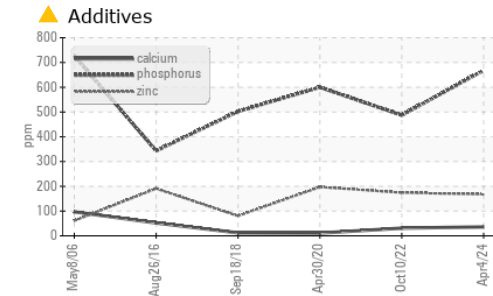
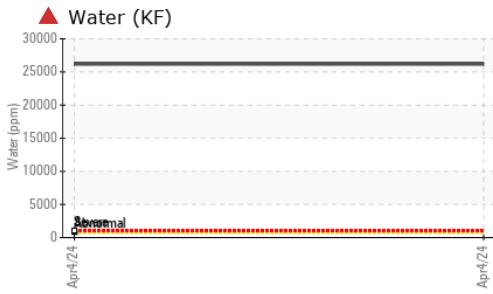
CONTAMINATION

There is a moderate amount of visible silt present in the sample. There is a high concentration of water present in the oil.

FLUID CONDITION

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211322	JR0146435	JR0045223
Sample Date		Client Info		04 Apr 2024	10 Oct 2022	30 Apr 2020
Machine Age	hrs	Client Info		3797	3505	2784
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>50	19	5	17
Iron	ppm	ASTM D5185m	>32	12	▲ 38	4
Chromium	ppm	ASTM D5185m	>9	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>9	2	2	<1
Lead	ppm	ASTM D5185m	>28	<1	3	4
Copper	ppm	ASTM D5185m	>50	6	17	10
Tin	ppm	ASTM D5185m	>5	<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
Silicon	ppm	ASTM D5185m	>11	2	6	1
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water	%	ASTM D6304	>0.075	▲ 2.62	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 26200	---	---
Particles >4µm		ASTM D7647	>80000	---	41901	8086
Particles >6µm		ASTM D7647	>20000	---	4864	640
Particles >14µm		ASTM D7647	>640	---	116	11
Particles >21µm		ASTM D7647	>160	---	22	4
Particles >38µm		ASTM D7647	>40	---	1	3
Particles >71µm		ASTM D7647	>10	---	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	---	23/19/14	20/16/11
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● MILKY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	▲ 0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>21	0	1	0
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		42	81	92
Calcium	ppm	ASTM D5185m	87	36	31	11
Phosphorus	ppm	ASTM D5185m	727	668	487	600
Zinc	ppm	ASTM D5185m	900	▲ 167	▲ 174	▲ 197
Sulfur	ppm	ASTM D5185m	1500	791	1359	1080
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.35	0.28	0.346
Visc @ 40°C	cSt	ASTM D445	65	47.4	45.0	45.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211322 **Received** : 10 Apr 2024
Lab Number : 06145249 **Tested** : 13 Apr 2024
Unique Number : 10970057 **Diagnosed** : 13 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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 US 20111
 Contact: DON VEST
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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)