



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 844K DW844KX626780
 Component
Hydraulic System
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202342	JR0190955	JR0181571
Sample Date		Client Info		27 Feb 2024	08 Nov 2023	03 Aug 2023
Machine Age	hrs	Client Info		31757	31266	30761
Oil Age	hrs	Client Info		0	31266	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	MARGINAL

WEAR

The iron level is abnormal. The chromium level is abnormal.

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

CONTAMINATION

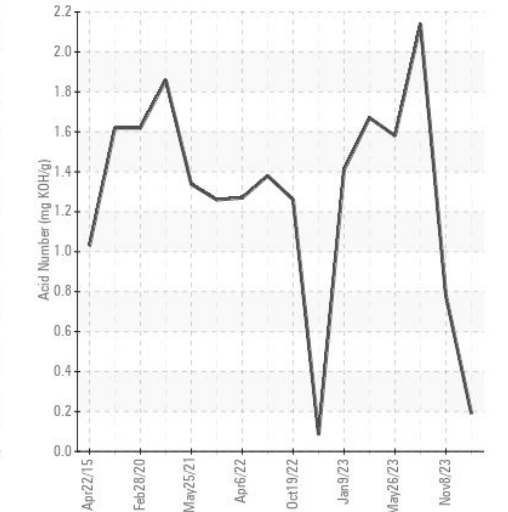
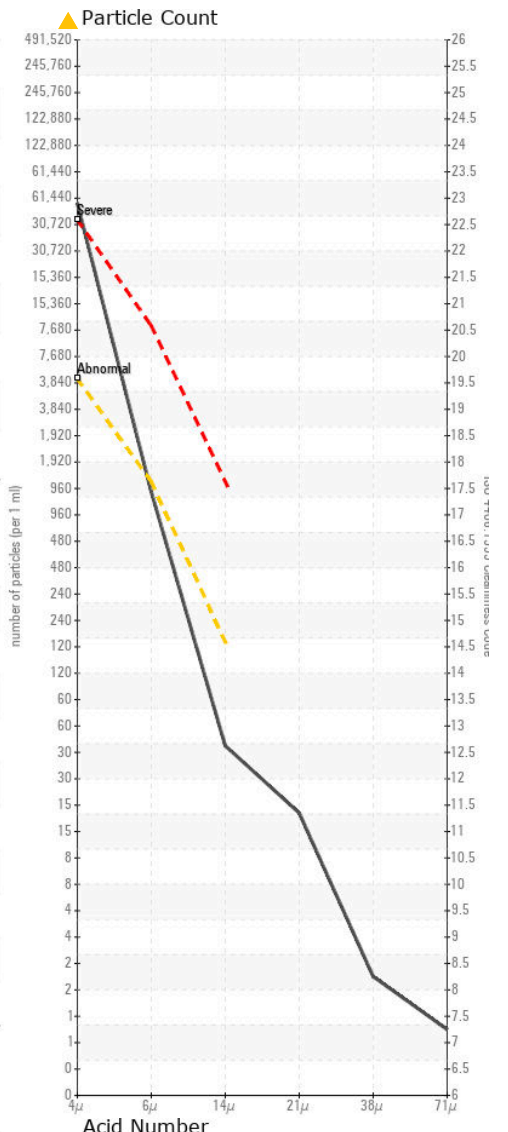
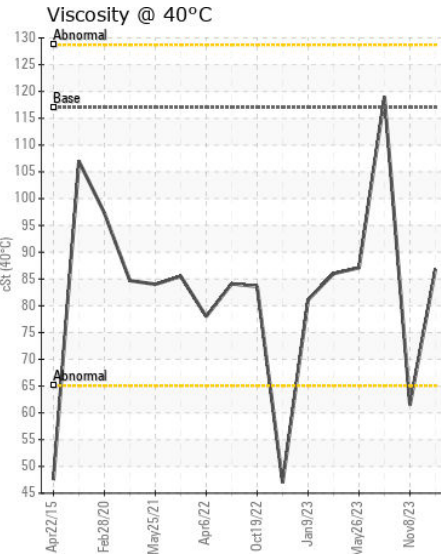
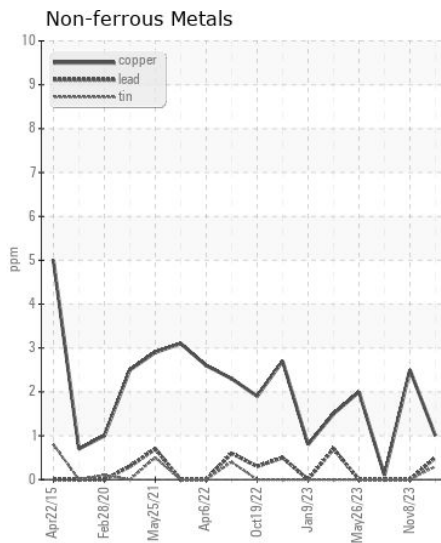
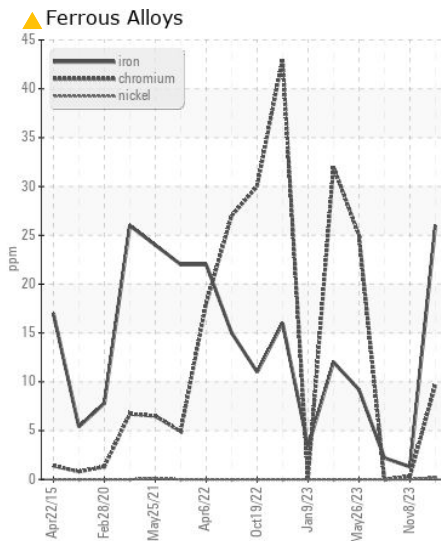
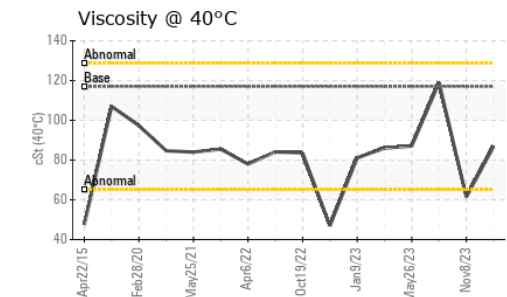
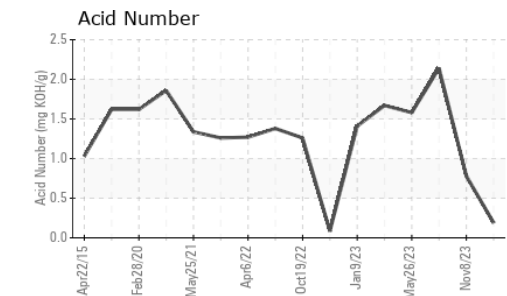
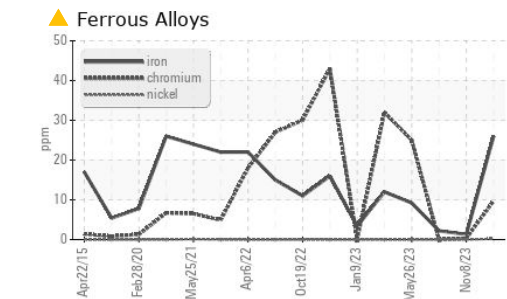
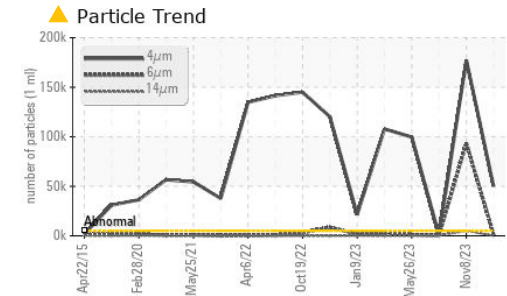
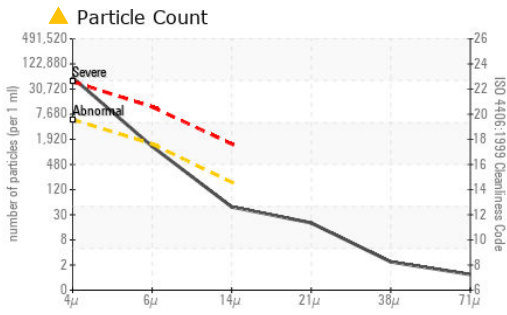
There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	10	5	7
Potassium	ppm	ASTM D5185m	>20	1	2	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 49814	▲ 177304	974
Particles >6µm		ASTM D7647	>1300	1137	▲ 93470	531
Particles >14µm		ASTM D7647	>160	41	▲ 5135	90
Particles >21µm		ASTM D7647	>40	17	▲ 468	30
Particles >38µm		ASTM D7647	>10	2	4	5
Particles >71µm		ASTM D7647	>3	1	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/17/13	▲ 25/24/20	17/16/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	0	0
Boron	ppm	ASTM D5185m		86	0	289
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		43	<1	245
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		308	3	739
Calcium	ppm	ASTM D5185m		2348	143	1292
Phosphorus	ppm	ASTM D5185m		1083	782	846
Zinc	ppm	ASTM D5185m		1352	1051	994
Sulfur	ppm	ASTM D5185m		4089	2574	2886
Acid Number (AN)	mg KOH/g	ASTM D8045		0.190	0.78	2.14
Visc @ 40°C	cSt	ASTM D445	117	86.8	61.5	119



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202342 **Received** : 29 Feb 2024
Lab Number : 06104565 **Tested** : 06 Mar 2024
Unique Number : 10902795 **Diagnosed** : 06 Mar 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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 Contact: ROBERT PRUITT
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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)