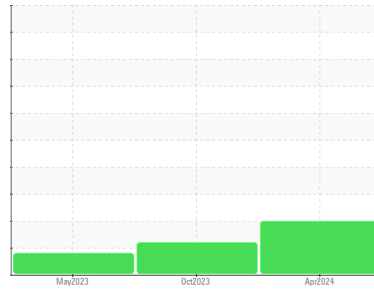




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
JOHN DEERE 8R310 11613 (S/N 1RW8310DENB201038)
 Component
Hydraulic System
 Fluid
TDH FLUID SAE 75W80 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

▲ Wear

The iron level is abnormal. The copper level is abnormal.

● Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

● Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0913222	WC0862857	WC0816236
Sample Date	Client Info			02 Apr 2024	09 Oct 2023	31 May 2023
Machine Age	hrs	Client Info		4560	3189	2189
Oil Age	hrs	Client Info		2371	1000	1110
Oil Changed	Client Info			Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ 27	16	▲ 31
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	4	3	5
Lead	ppm	ASTM D5185m	>10	9	3	1
Copper	ppm	ASTM D5185m	>75	▲ 87	33	12
Tin	ppm	ASTM D5185m	>10	6	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	103	84	12
Barium	ppm	ASTM D5185m	10	<1	<1	4
Molybdenum	ppm	ASTM D5185m	10	6	3	2
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	100	56	63	90
Calcium	ppm	ASTM D5185m	3500	3228	3087	3247
Phosphorus	ppm	ASTM D5185m	1150	1172	1041	1013
Zinc	ppm	ASTM D5185m	1150	1206	1224	1192
Sulfur	ppm	ASTM D5185m	5000	3485	2999	3914

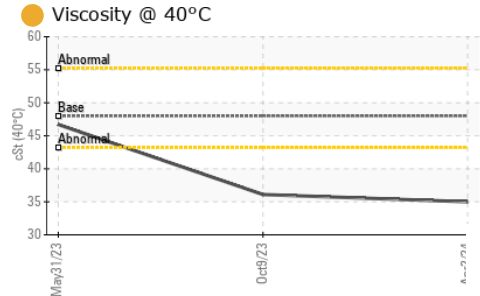
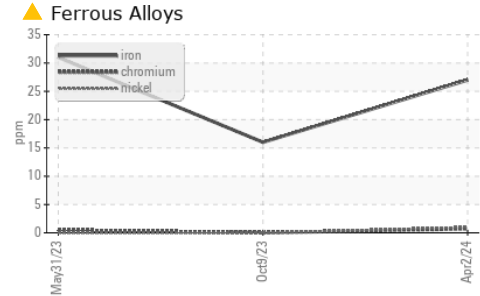
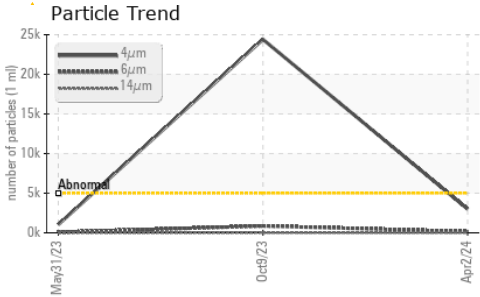
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	8	5
Sodium	ppm	ASTM D5185m		2	4	5
Potassium	ppm	ASTM D5185m	>20	2	0	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2997	▲ 24405	1039
Particles >6µm		ASTM D7647	>1300	159	862	68
Particles >14µm		ASTM D7647	>160	7	15	7
Particles >21µm		ASTM D7647	>40	2	5	1
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/14/10	▲ 22/17/11	17/13/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	0.83	0.97	1.17



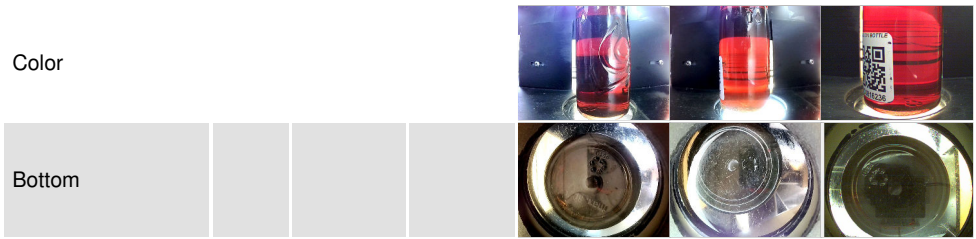
OIL ANALYSIS REPORT



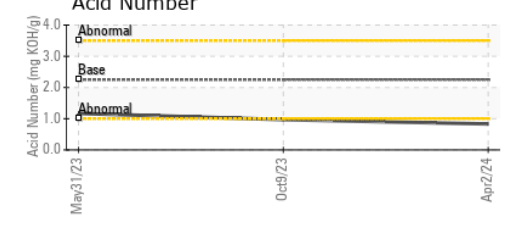
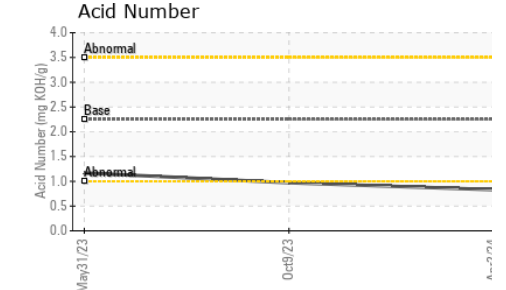
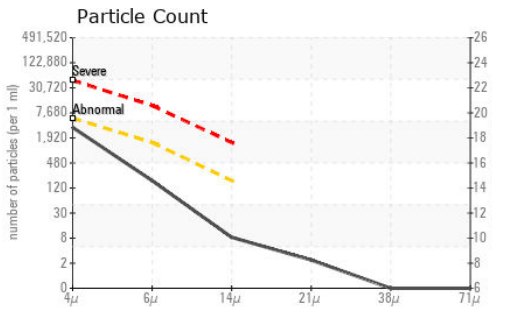
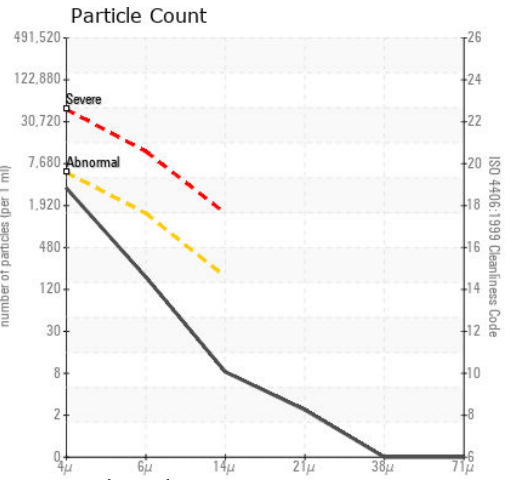
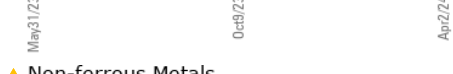
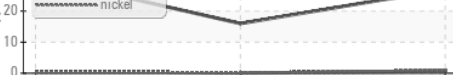
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 48	● 35.0	● 36.1	46.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0913222 **Received** : 12 Apr 2024
Lab Number : 06147243 **Tested** : 15 Apr 2024
Unique Number : 10977321 **Diagnosed** : 16 Apr 2024 - Don Baldrige
Test Package : CONST

TRADER CONSTRUCTION CO.
 PO DRAWER 1578
 NEW BERN, NC
 US 28563
 Contact: MIKE WYATT
 mw Wyatt@traderconstruction.com
 T: (252)633-1399
 F: (252)638-4871

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)