



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Store 3 - Norton [144354]
Machine Id
JOHN DEERE 250G 1FF250GXVBE608072
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (39 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		LEC0041607	LEC0030193	LECP178072
Sample Date		Client Info		19 Oct 2023	12 Apr 2022	25 Jun 2018
Machine Age	hrs	Client Info		8483	7720	6408
Oil Age	hrs	Client Info		8483	7720	3
Filter Age	hrs	Client Info		763	0	3
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

PQ		ASTM D8184	>50	39	17	14
Iron	ppm	ASTM D5185m	>32	▲ 45	3	14
Chromium	ppm	ASTM D5185m	>9	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>9	2	1	2
Lead	ppm	ASTM D5185m	>28	<1	0	0
Copper	ppm	ASTM D5185m	>50	12	7	<1
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

CONTAMINATION

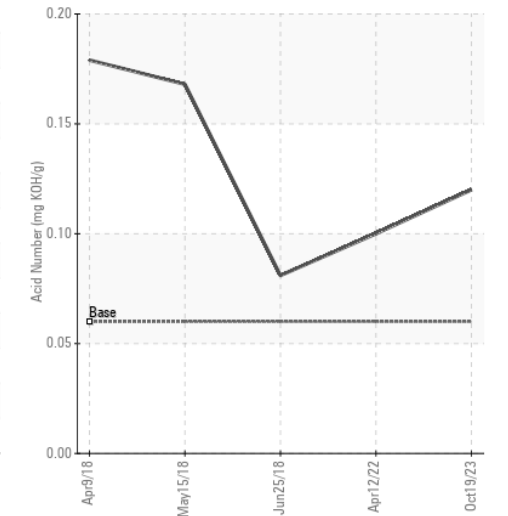
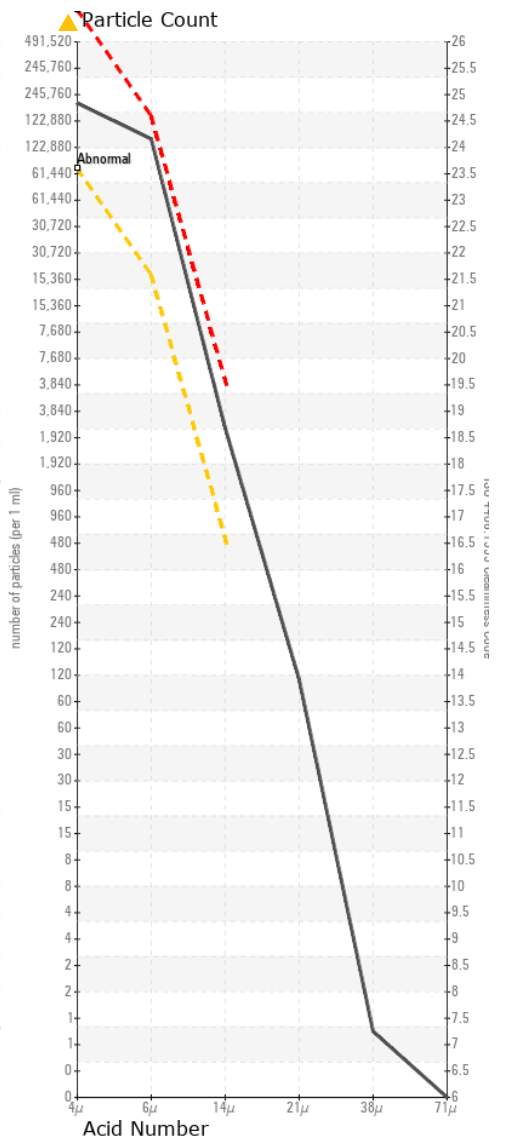
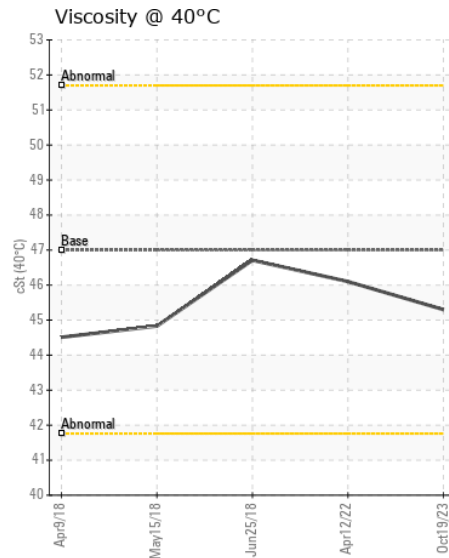
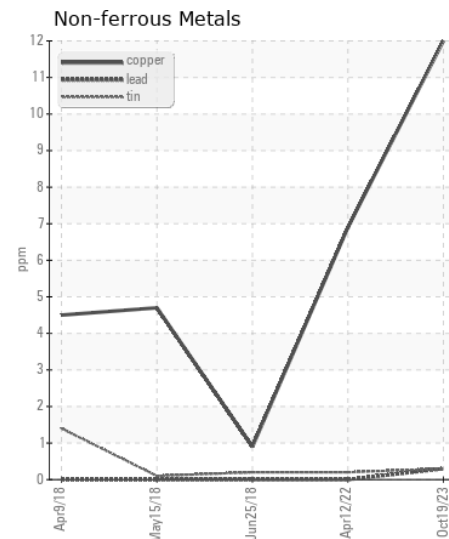
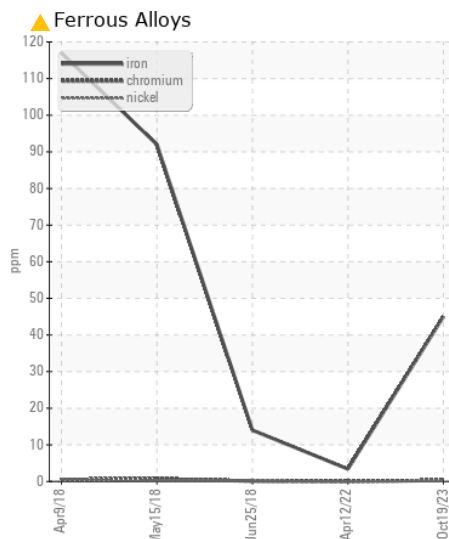
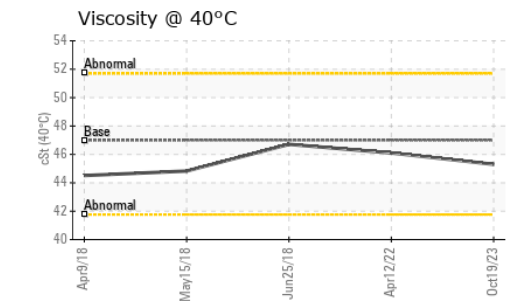
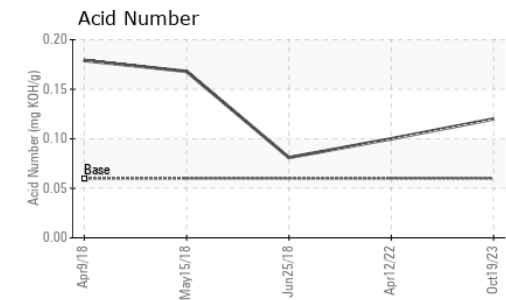
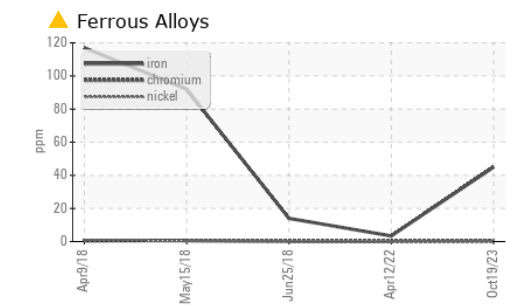
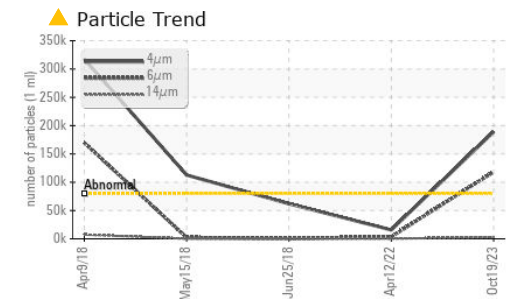
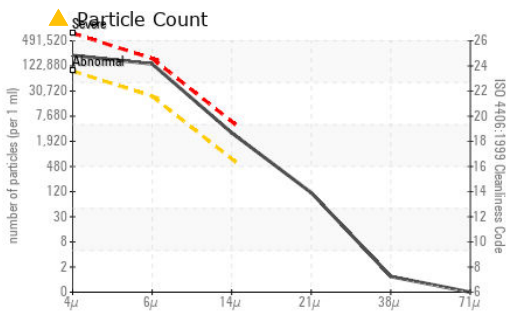
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>11	3	2	2
Potassium	ppm	ASTM D5185m	>20	1	0	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	▲ 189060	15709	61950
Particles >6µm		ASTM D7647	>20000	▲ 118236	3754	496
Particles >14µm		ASTM D7647	>640	▲ 2689	227	16
Particles >21µm		ASTM D7647	>160	100	32	5
Particles >38µm		ASTM D7647	>40	1	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	▲ 25/24/19	21/19/15	23/16/11
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	>0.075	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>21	0	<1	<1
Boron	ppm	ASTM D5185m		0	2	1
Barium	ppm	ASTM D5185m		9	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		6	5	1
Phosphorus	ppm	ASTM D5185m	827	468	579	581
Zinc	ppm	ASTM D5185m	0	25	19	12
Sulfur	ppm	ASTM D5185m	13	161	146	44
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.12	0.10	0.081
Visc @ 40°C	cSt	ASTM D445	47	45.3	46.1	46.71



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041607 **Received** : 24 Oct 2023
Lab Number : 05988013 **Tested** : 26 Oct 2023
Unique Number : 10710675 **Diagnosed** : 26 Oct 2023 - Don Baldrige
Test Package : CONST (Additional Tests: 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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