



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 3 - Norton

Machine Id
JOHN DEERE 331G 1T0331GMEHF316759

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041576	LEC0039312	LEC0021503
Sample Date		Client Info		18 Jun 2024	24 Mar 2023	11 Aug 2021
Machine Age	hrs	Client Info		2641	2257	1766
Oil Age	hrs	Client Info		2641	2257	1766
Filter Age	hrs	Client Info		384	491	766
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	21	▲ 30	▲ 32
Chromium	ppm	ASTM D5185m	>10	2	3	2
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	3	4	4
Lead	ppm	ASTM D5185m	>10	2	3	3
Copper	ppm	ASTM D5185m	>75	10	13	14
Tin	ppm	ASTM D5185m	>10	<1	0	<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

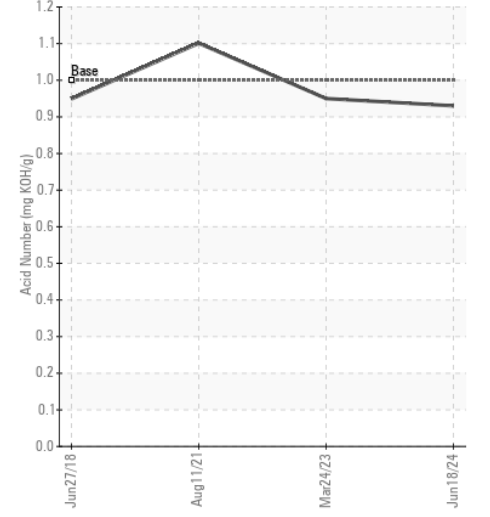
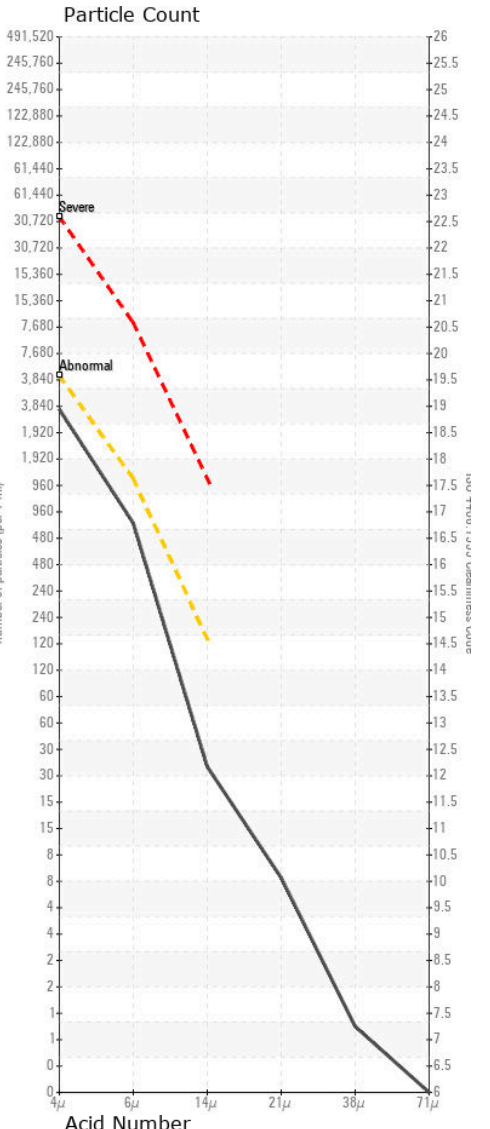
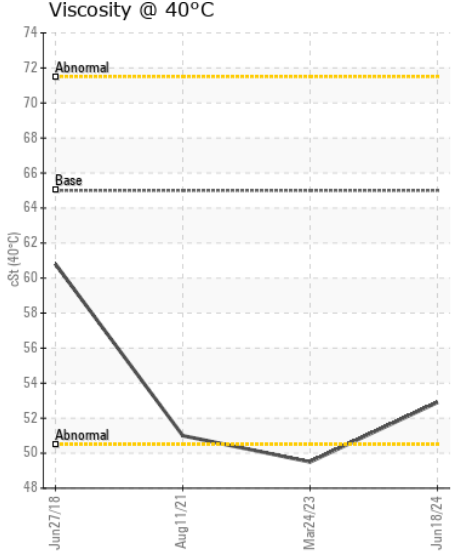
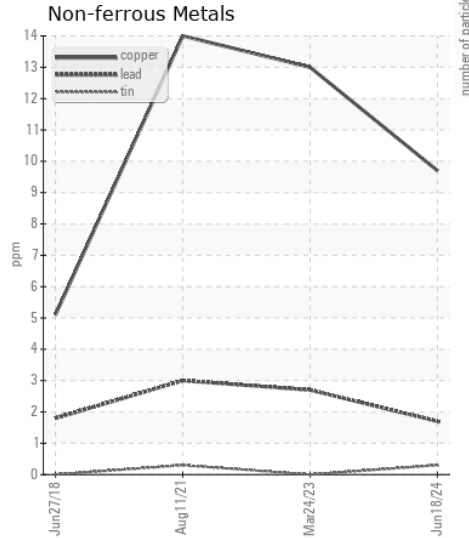
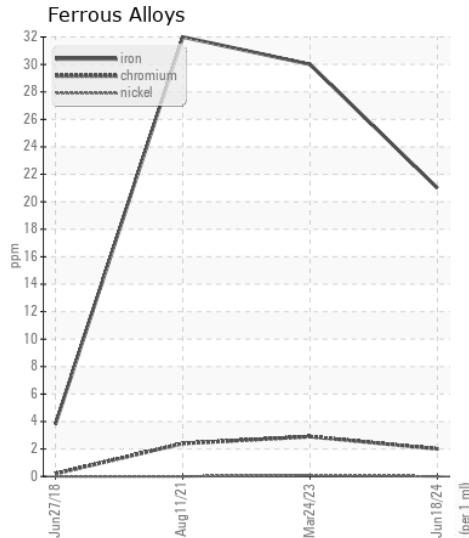
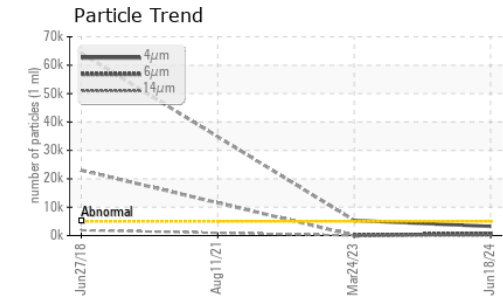
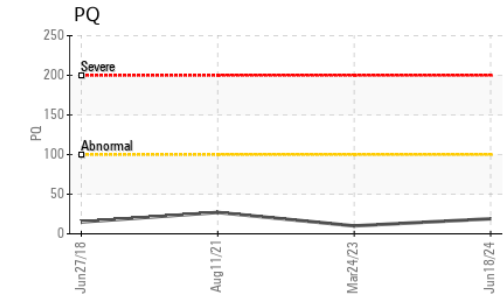
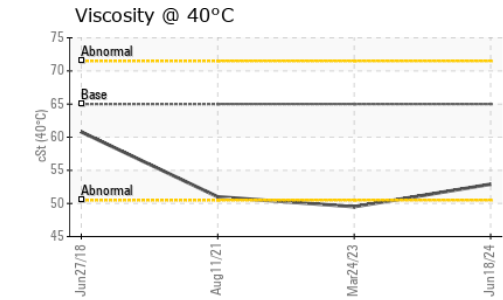
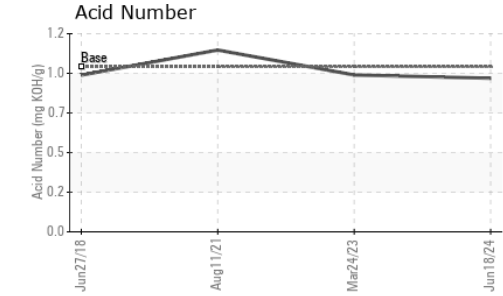
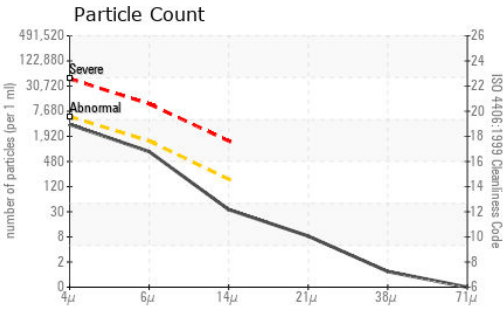
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	6	7	8
Potassium	ppm	ASTM D5185m	>20	3	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	3224	● 5337	---
Particles >6µm		ASTM D7647	>1300	726	84	---
Particles >14µm		ASTM D7647	>160	30	6	---
Particles >21µm		ASTM D7647	>40	7	1	---
Particles >38µm		ASTM D7647	>10	1	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/12	● 20/14/10	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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 oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	2	2
Boron	ppm	ASTM D5185m		5	4	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	4	7
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m		27	39	57
Calcium	ppm	ASTM D5185m	87	526	928	1324
Phosphorus	ppm	ASTM D5185m	727	733	681	773
Zinc	ppm	ASTM D5185m	900	927	933	1029
Sulfur	ppm	ASTM D5185m	1500	2545	2827	2364
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.93	0.95	1.101
Visc @ 40°C	cSt	ASTM D445	65	52.9	49.5	51.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041576 **Received** : 24 Jun 2024
Lab Number : 06218075 **Tested** : 25 Jun 2024
Unique Number : 11096272 **Diagnosed** : 25 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

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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