



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION

Store 3 - Norton

Machine Id
JOHN DEERE 331G 1T0331GMEHF316759

Component
Left Final Drive

Fluid
JOHN DEERE HY-GARD HYD/TRANS (1 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

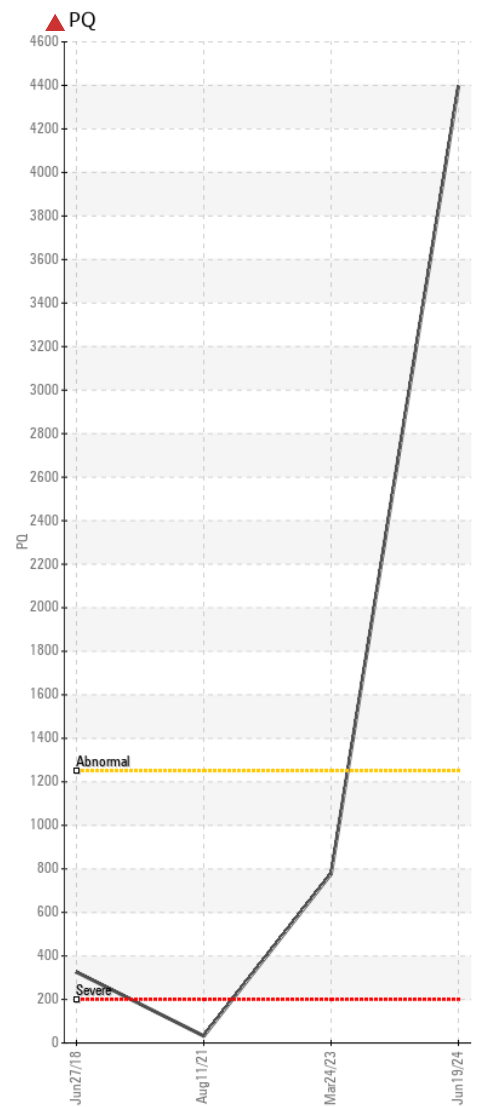
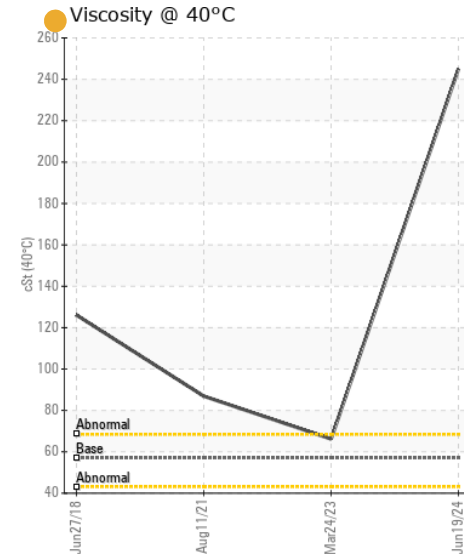
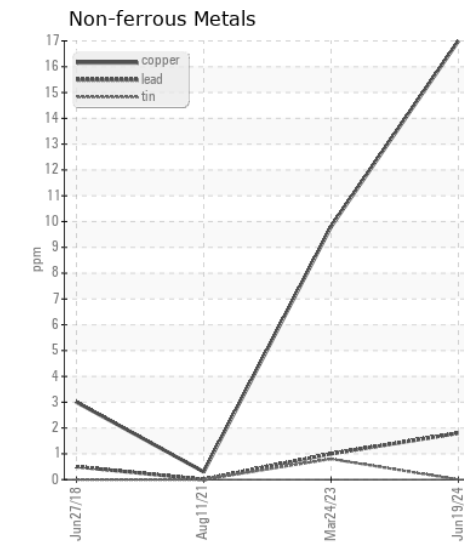
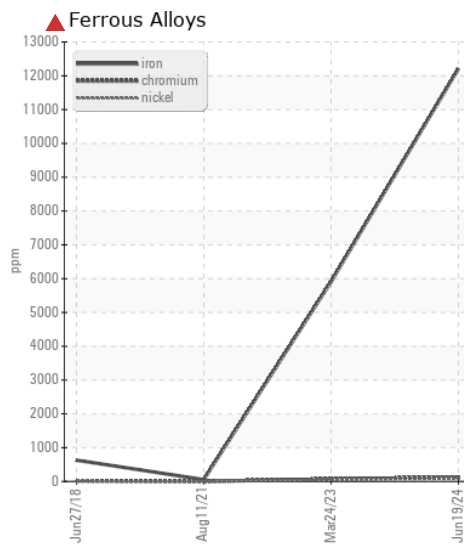
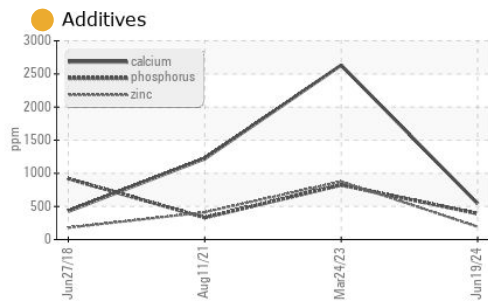
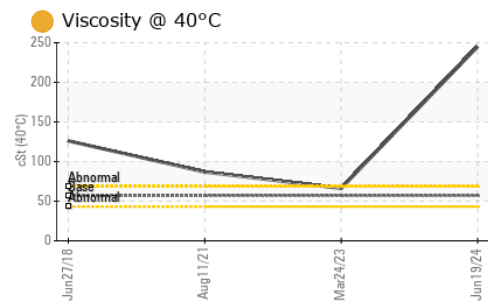
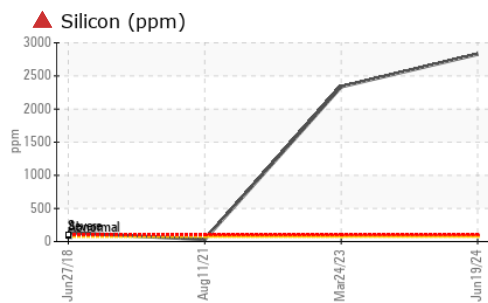
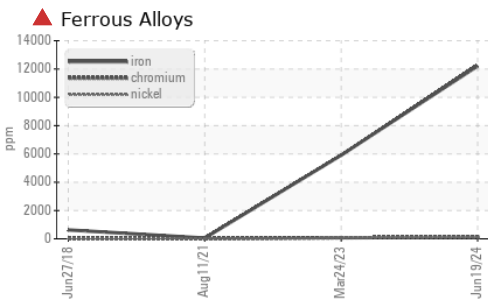
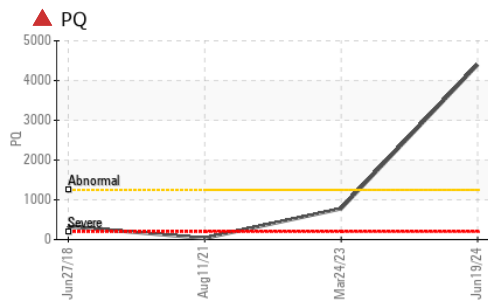
The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041577	LEC0039455	LEC0021501
Sample Date		Client Info		19 Jun 2024	24 Mar 2023	11 Aug 2021
Machine Age	hrs	Client Info		2641	2257	1766
Oil Age	hrs	Client Info		384	491	1766
Filter Age	hrs	Client Info		0	0	258
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Not Changed
Sample Status				SEVERE	SEVERE	NORMAL

PQ		ASTM D8184	>1250	▲ 4396	777	32
Iron	ppm	ASTM D5185m	>750	▲ 12212	▲ 5911	54
Chromium	ppm	ASTM D5185m	>9	▲ 121	▲ 71	1
Nickel	ppm	ASTM D5185m	>10	▲ 85	▲ 48	2
Titanium	ppm	ASTM D5185m		30	28	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>40	● 273	● 120	2
Lead	ppm	ASTM D5185m	>15	2	1	0
Copper	ppm	ASTM D5185m	>40	17	10	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		6	5	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 2829	▲ 2337	32
Potassium	ppm	ASTM D5185m	>20	74	41	0
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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

Sodium	ppm	ASTM D5185m	>51	24	12	<1
Boron	ppm	ASTM D5185m	6	18	19	15
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	0	● 26	18	3
Manganese	ppm	ASTM D5185m		● 91	58	<1
Magnesium	ppm	ASTM D5185m	145	58	123	57
Calcium	ppm	ASTM D5185m	3570	● 543	2632	1221
Phosphorus	ppm	ASTM D5185m	1290	● 391	824	330
Zinc	ppm	ASTM D5185m	1640	● 194	876	410
Sulfur	ppm	ASTM D5185m		● 15979	6384	6474
Visc @ 40°C	cSt	ASTM D445	57.0	● 245	66.2	86.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041577 **Received** : 24 Jun 2024
Lab Number : 06218511 **Tested** : 25 Jun 2024
Unique Number : 11096708 **Diagnosed** : 26 Jun 2024 - Sean Felton
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)

T:
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