



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 4 - Fairmont
 Machine Id
JOHN DEERE 60 EX-3 (S/N 0288179)
 Component
Hydraulic System
 Fluid
DIESEL ENGINE OIL SAE 10W (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047706	LEC0014345	---
Sample Date		Client Info		18 Dec 2023	05 Aug 2020	---
Machine Age	hrs	Client Info		1398	919	---
Oil Age	hrs	Client Info		500	919	---
Filter Age	hrs	Client Info		500	919	---
Oil Changed		Client Info		Not Changed	N/A	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		11	18	---
Iron	ppm	ASTM D5185m	>20	7	6	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	2	0	---
Lead	ppm	ASTM D5185m	>10	<1	1	---
Copper	ppm	ASTM D5185m	>75	3	2	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

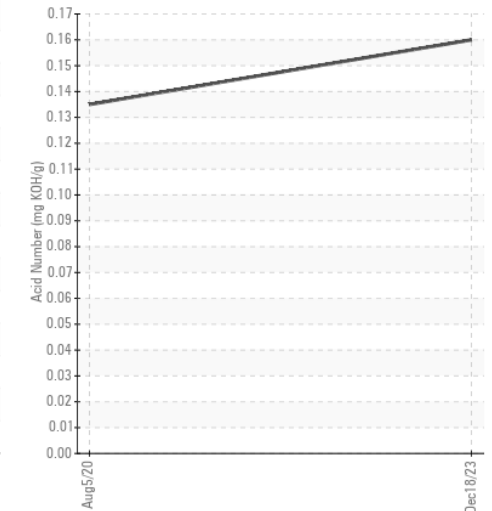
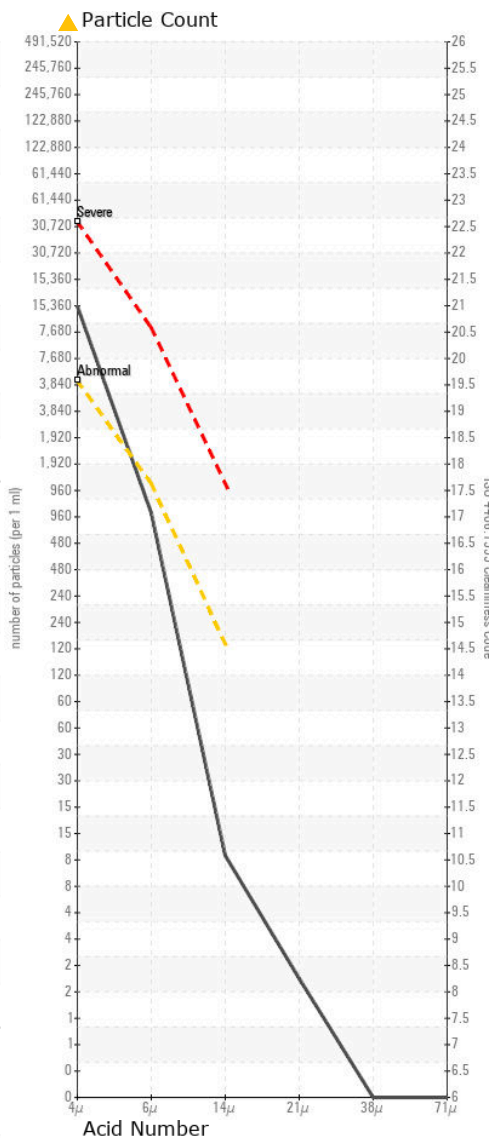
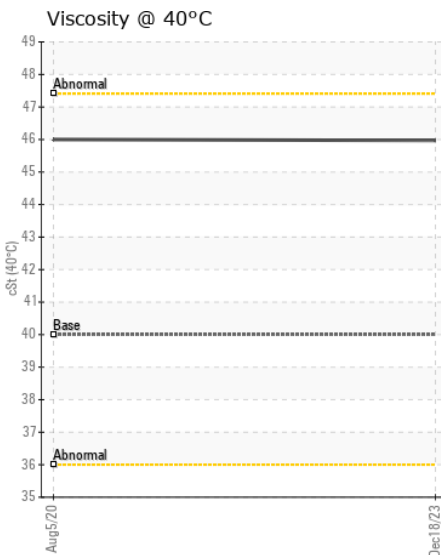
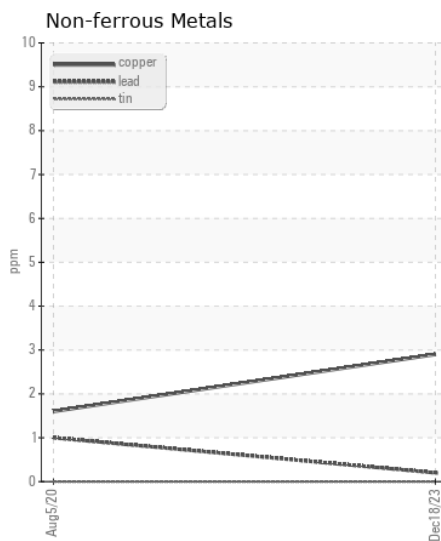
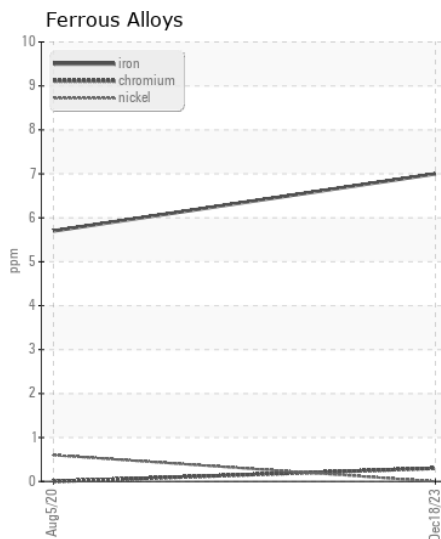
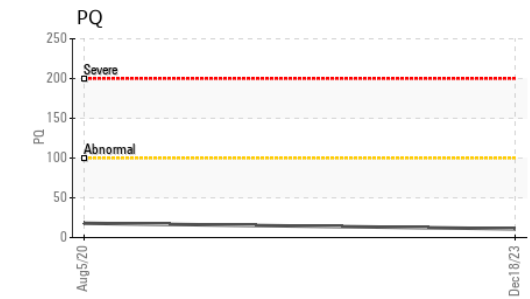
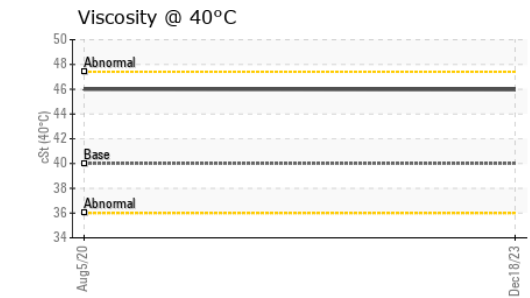
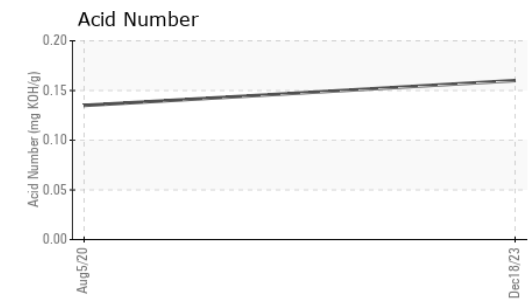
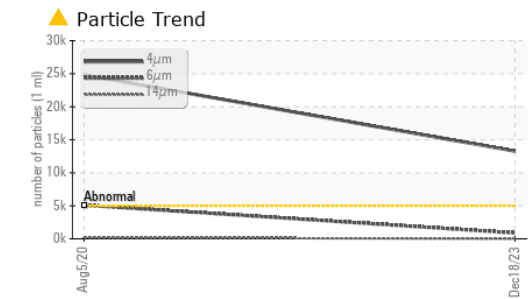
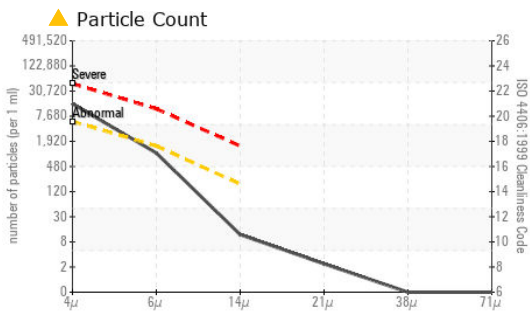
There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	0	0	---
Potassium	ppm	ASTM D5185m	>20	<1	1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 13274	▲ 24825	---
Particles >6µm		ASTM D7647	>1300	885	▲ 5097	---
Particles >14µm		ASTM D7647	>160	10	▲ 164	---
Particles >21µm		ASTM D7647	>40	2	36	---
Particles >38µm		ASTM D7647	>10	0	4	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/17/10	▲ 22/20/15	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
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	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	---
Boron	ppm	ASTM D5185m	250	0	<1	---
Barium	ppm	ASTM D5185m	10	3	0	---
Molybdenum	ppm	ASTM D5185m	100	0	0	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	450	4	7	---
Calcium	ppm	ASTM D5185m	3000	8	2	---
Phosphorus	ppm	ASTM D5185m	1150	349	327	---
Zinc	ppm	ASTM D5185m	1350	47	45	---
Sulfur	ppm	ASTM D5185m	4250	1595	1397	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.16	0.135	---
Visc @ 40°C	cSt	ASTM D445	40	45.97	46.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047706 **Received** : 17 Jan 2024
Lab Number : 06063516 **Diagnosed** : 24 Jan 2024
Unique Number : 10834898 **Diagnostician** : Doug Bogart
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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