



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Heavy Equipment-Excavator 20t-29.9t/Store 9 - Marietta

Machine Id
102002 JOHN DEERE 245G 1FF245GXPKF801388

Component
Swing Drive

Fluid
FACTORY FILL (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0018934	LEC0017163	---
Sample Date		Client Info		17 Sep 2021	19 Nov 2020	---
Machine Age	hrs	Client Info		947	392	---
Oil Age	hrs	Client Info		947	392	---
Filter Age	hrs	Client Info		0	392	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		28	32	---
Iron	ppm	ASTM D5185m	>151	42	51	---
Chromium	ppm	ASTM D5185m	>11	2	2	---
Nickel	ppm	ASTM D5185m		<1	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>21	<1	<1	---
Lead	ppm	ASTM D5185m	>51	0	0	---
Copper	ppm	ASTM D5185m	>51	<1	<1	---
Tin	ppm	ASTM D5185m		0	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

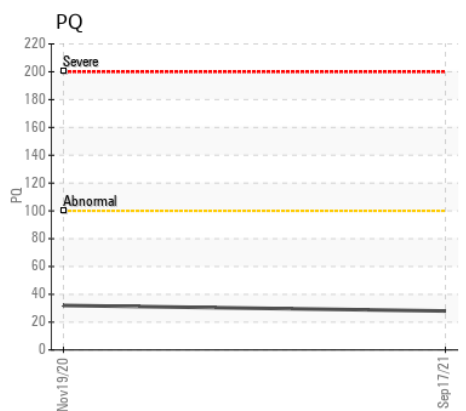
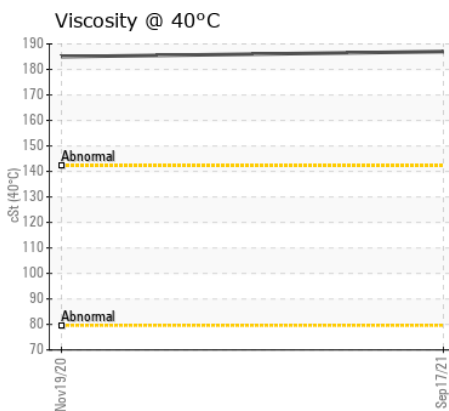
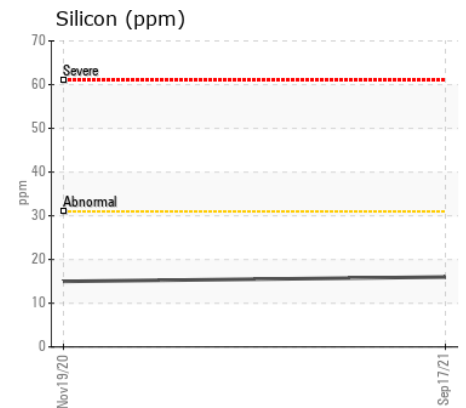
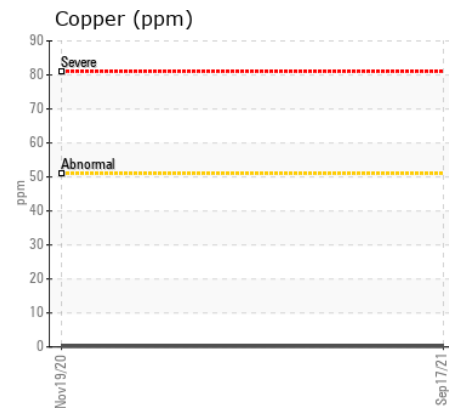
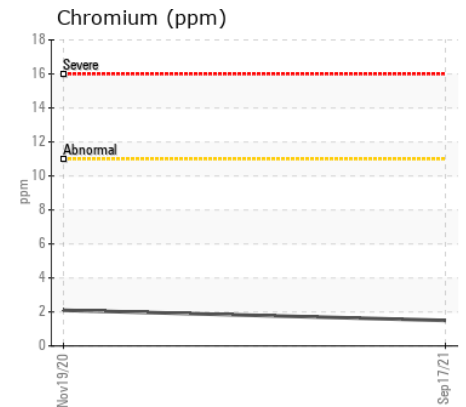
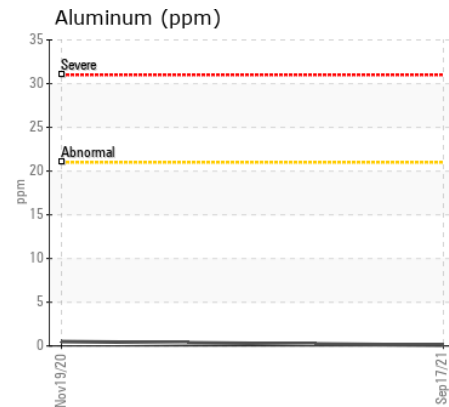
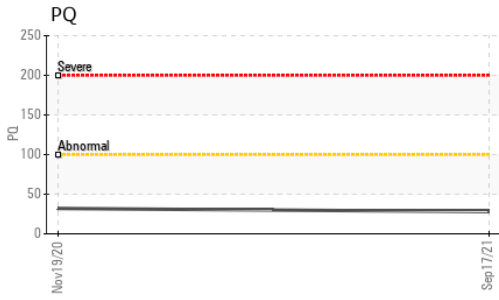
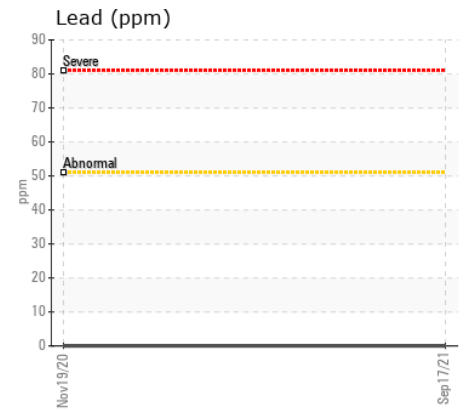
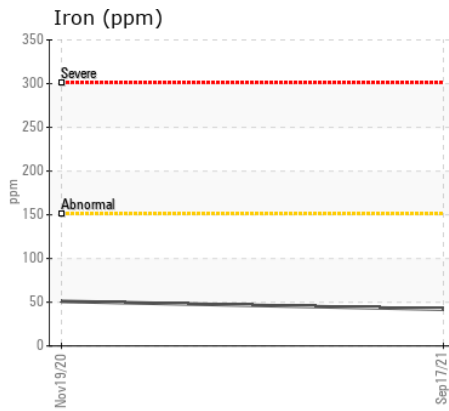
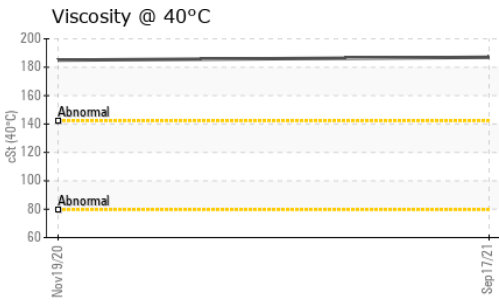
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	16	15	---
Potassium	ppm	ASTM D5185m	>20	4	1	---
Water		WC Method	>0.1	NEG	NEG	---
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	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	1	<1	---
Boron	ppm	ASTM D5185m		66	71	---
Barium	ppm	ASTM D5185m		4	4	---
Molybdenum	ppm	ASTM D5185m		1	<1	---
Manganese	ppm	ASTM D5185m		3	4	---
Magnesium	ppm	ASTM D5185m		<1	2	---
Calcium	ppm	ASTM D5185m		20	38	---
Phosphorus	ppm	ASTM D5185m		476	500	---
Zinc	ppm	ASTM D5185m		9	<1	---
Sulfur	ppm	ASTM D5185m		11197	13304	---
Visc @ 40°C	cSt	ASTM D445		187	185	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0018934 **Received** : 22 Sep 2021
Lab Number : 05356715 **Diagnosed** : 23 Sep 2021
Unique Number : 9670808 **Diagnostician** : Don Baldrige
Test Package : MOBCE (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)

MIDWEST MOLE
 6814 W 350N
 GREENFIELD, IN
 US 46140
 Contact: C.W. Kick
 CKICK@MIDWESTMOLE.COM
 T: (317)545-1335
 F: