



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Store 5 - Cross Lanes

Machine Id
HAMM H243.0280

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050476	LEC0009098	---
Sample Date		Client Info		14 Jun 2024	08 Nov 2019	---
Machine Age	hrs	Client Info		3568	476	---
Oil Age	hrs	Client Info		3568	476	---
Filter Age	hrs	Client Info		250	150	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The iron level is abnormal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ 29	12	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	2	1	---
Lead	ppm	ASTM D5185m	>10	10	2	---
Copper	ppm	ASTM D5185m	>75	58	51	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

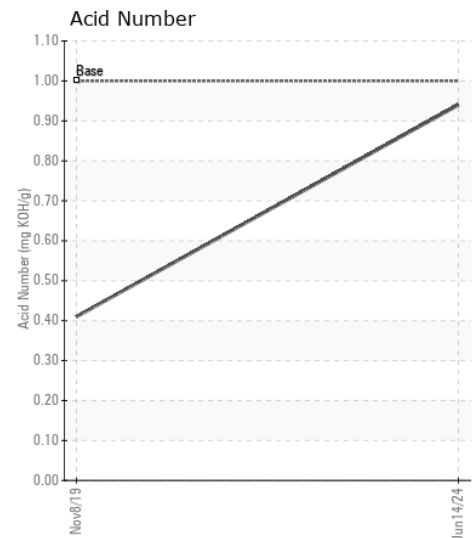
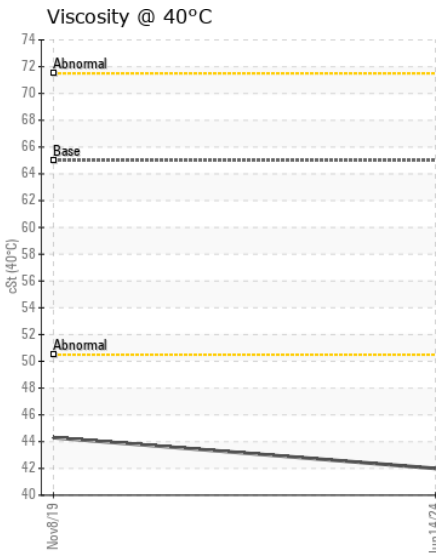
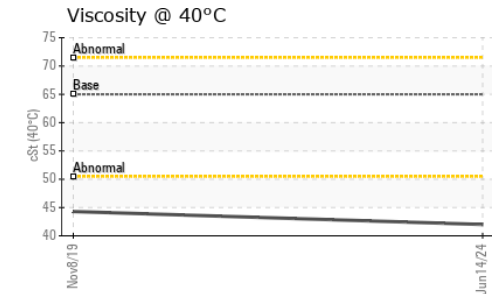
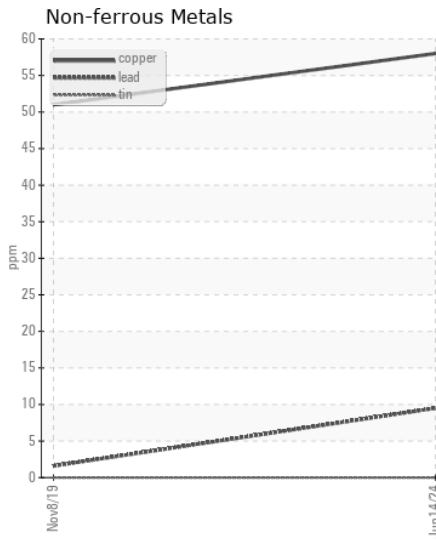
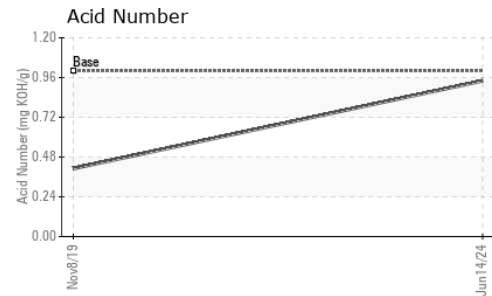
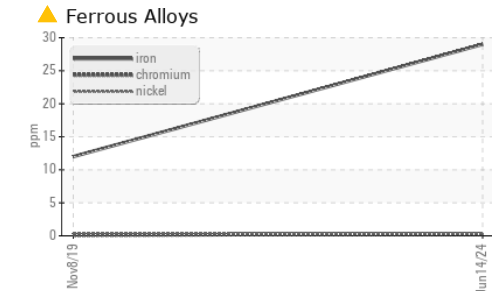
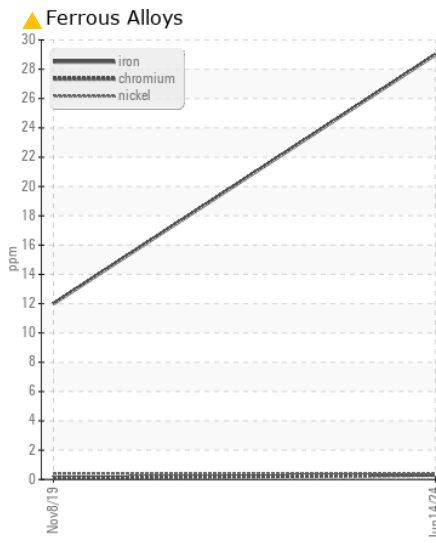
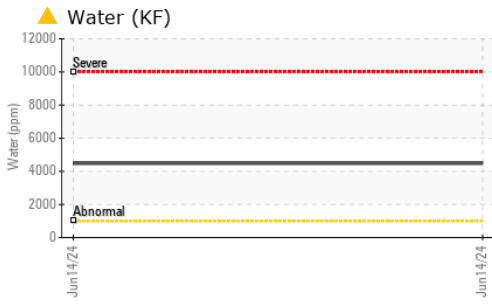
Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	9	3	---
Potassium	ppm	ASTM D5185m	>20	9	0	---
Water	%	ASTM D6304	>0.1	▲ 0.448	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 4480	---	---
Particles >4µm		ASTM D7647	>5000	---	3402	---
Particles >6µm		ASTM D7647	>1300	---	270	---
Particles >14µm		ASTM D7647	>160	---	18	---
Particles >21µm		ASTM D7647	>40	---	7	---
Particles >38µm		ASTM D7647	>10	---	0	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	19/15/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● HAZY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<1	<1	---
Boron	ppm	ASTM D5185m		49	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		2	1	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m		29	<1	---
Calcium	ppm	ASTM D5185m	87	1664	27	---
Phosphorus	ppm	ASTM D5185m	727	683	255	---
Zinc	ppm	ASTM D5185m	900	930	354	---
Sulfur	ppm	ASTM D5185m	1500	2068	770	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.94	0.410	---
Visc @ 40°C	cSt	ASTM D445	65	42.0	44.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050476 **Received** : 19 Jun 2024
Lab Number : 06214545 **Tested** : 21 Jun 2024
Unique Number : 11087409 **Diagnosed** : 21 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

WV PAVING
 2902 CHARLES AVE
 DUNBAR, WV
 US 25064
 Contact:

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:
F: