



OIL ANALYSIS REPORT



Area
Store 8 - Pikeville [152975]
 Machine Id
1T0950KPHJF335977
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (23 GAL)

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

RECOMMENDATION

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor. There is too much water present in this sample to perform a particle count.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049146	LEC0047461	LEC0045393
Sample Date		Client Info		15 Jul 2024	20 Mar 2024	01 Nov 2023
Machine Age	hrs	Client Info		4941	4460	3748
Oil Age	hrs	Client Info		4941	4460	3748
Filter Age	hrs	Client Info		2817	2399	1687
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	19	27	14
Iron	ppm	ASTM D5185m	>23	24	23	13
Chromium	ppm	ASTM D5185m	>9	1	1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	2
Aluminum	ppm	ASTM D5185m	>9	3	3	1
Lead	ppm	ASTM D5185m	>28	0	<1	0
Copper	ppm	ASTM D5185m	>51	4	2	2
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

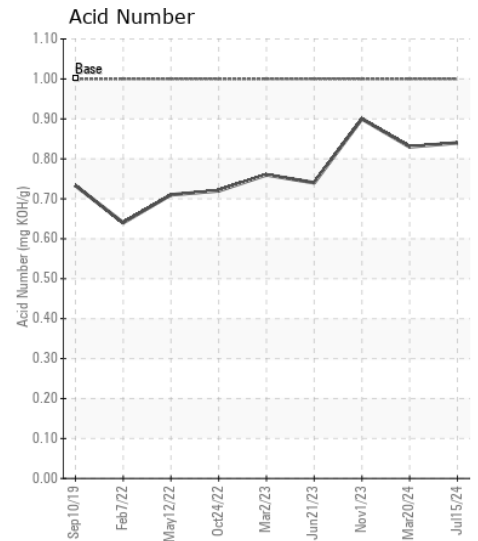
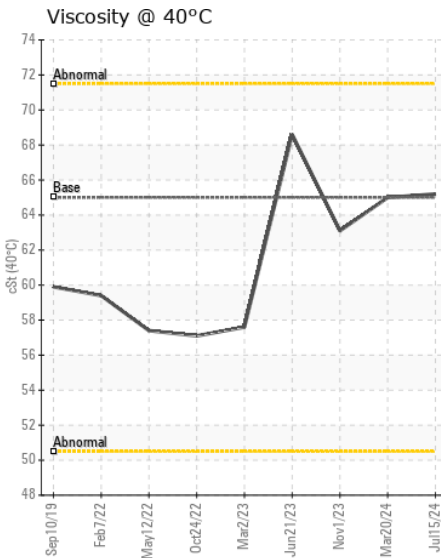
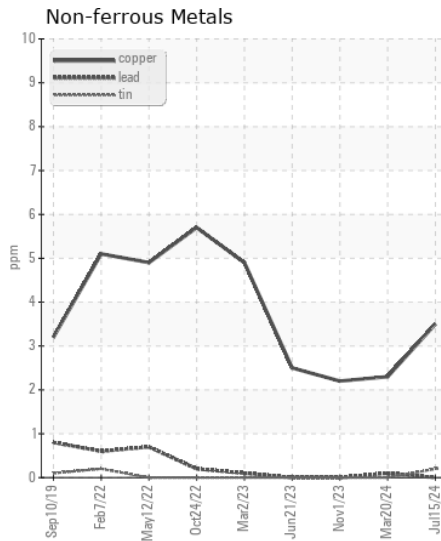
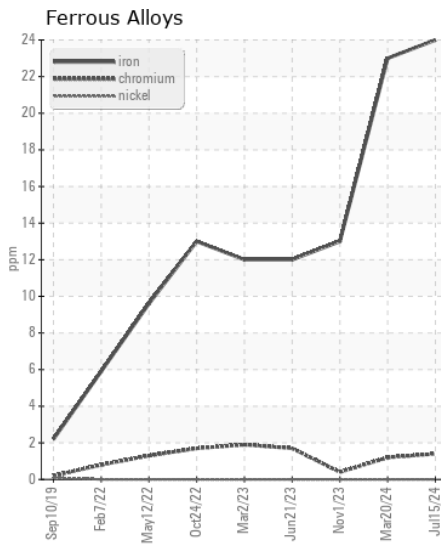
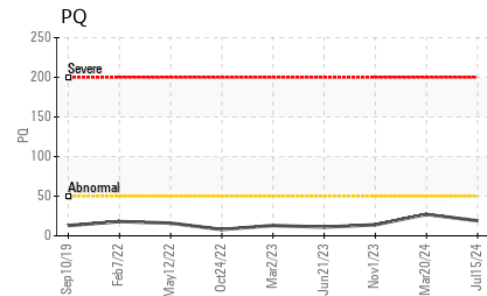
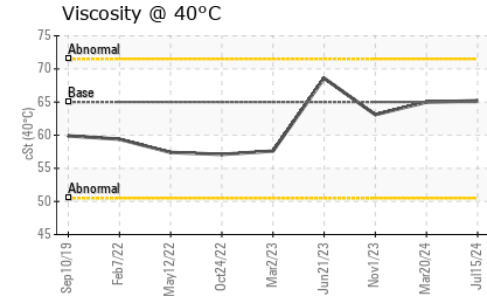
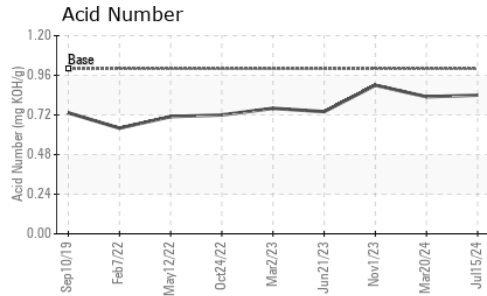
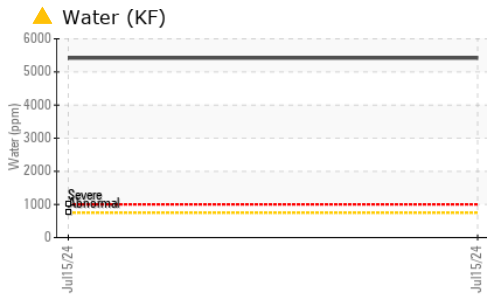
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>31	9	9	6
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water	%	ASTM D6304	>0.075	▲ 0.542	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 5420	---	---
Particles >4µm		ASTM D7647	>80000	---	● 122793	34640
Particles >6µm		ASTM D7647	>20000	---	3221	994
Particles >14µm		ASTM D7647	>640	---	79	59
Particles >21µm		ASTM D7647	>160	---	24	13
Particles >38µm		ASTM D7647	>40	---	0	0
Particles >71µm		ASTM D7647	>10	---	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	---	● 24/19/13	22/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	▲ 0.2%	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>21	2	1	1
Boron	ppm	ASTM D5185m		6	4	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		6	7	2
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		71	74	23
Calcium	ppm	ASTM D5185m	87	1970	2065	1764
Phosphorus	ppm	ASTM D5185m	727	798	832	717
Zinc	ppm	ASTM D5185m	900	970	973	858
Sulfur	ppm	ASTM D5185m	1500	3266	3373	2407
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.84	0.83	0.90
Visc @ 40°C	cSt	ASTM D445	65	65.2	65.0	63.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049146 **Received** : 17 Jul 2024
Lab Number : 06239069 **Tested** : 19 Jul 2024
Unique Number : 11127903 **Diagnosed** : 19 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, 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:
 F: (740)373-5570