



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 6 - Ashland [149969]
Machine Id
JOHN DEERE 644K 25950 (S/N 1DW644KZAHF685060)
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC004647	LEC0046559	LEC0042909
Sample Date		Client Info		22 Apr 2024	19 Feb 2024	16 Nov 2023
Machine Age	hrs	Client Info		12774	12471	11978
Oil Age	hrs	Client Info		1266	963	470
Filter Age	hrs	Client Info		303	963	470
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>135	13	10	14
Iron	ppm	ASTM D5185m	>420	13	10	9
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	0	<1	1
Lead	ppm	ASTM D5185m	>95	21	20	17
Copper	ppm	ASTM D5185m	>170	14	10	9
Tin	ppm	ASTM D5185m	>15	<1	1	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

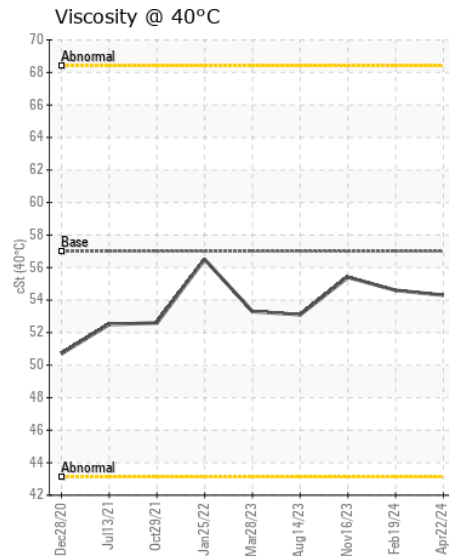
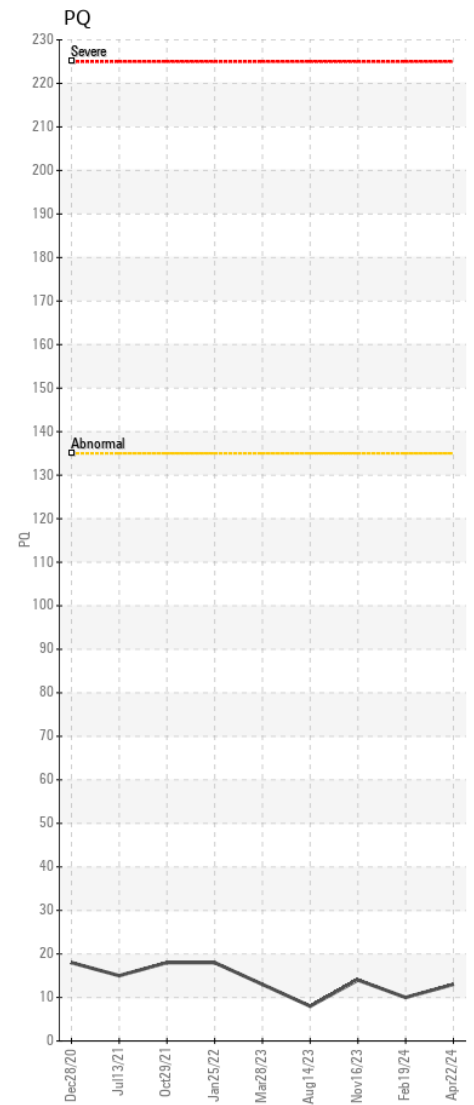
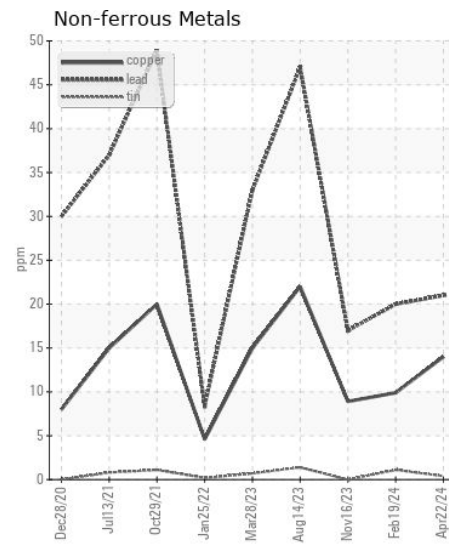
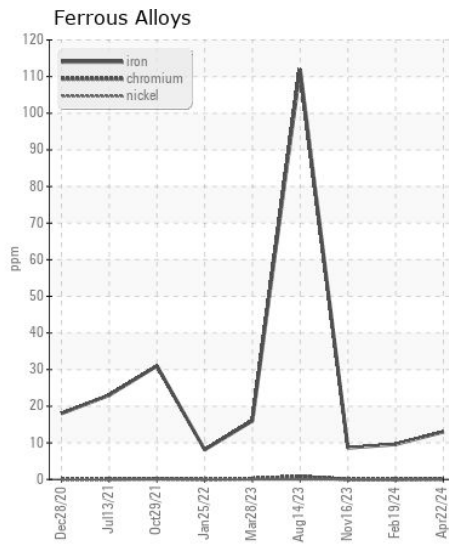
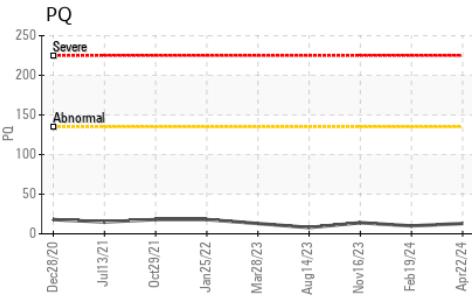
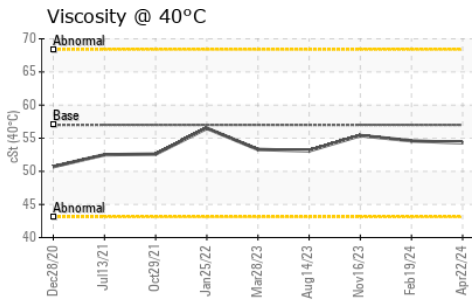
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	3	3	3
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>.2	NEG	NEG	NEG
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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	<1	0
Boron	ppm	ASTM D5185m	6	0	0	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	145	101	82	93
Calcium	ppm	ASTM D5185m	3570	3709	3353	3439
Phosphorus	ppm	ASTM D5185m	1290	1022	1009	949
Zinc	ppm	ASTM D5185m	1640	1263	1277	1177
Sulfur	ppm	ASTM D5185m		3910	3387	3810
Visc @ 40°C	cSt	ASTM D445	57.0	54.3	54.6	55.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044647 **Received** : 24 Apr 2024
Lab Number : 06159385 **Tested** : 25 Apr 2024
Unique Number : 10994808 **Diagnosed** : 25 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

VESUVIUS
 1080 RIVER FRONT RD
 WURTLAND, KY
 US 41144
 Contact: CHARLES

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: (606)327-1704

F: