



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 6 - Ashland [145200]
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		LEC0042909	LEC0041056	LEC0037466
Sample Date		Client Info		16 Nov 2023	14 Aug 2023	28 Mar 2023
Machine Age	hrs	Client Info		11978	11508	10660
Oil Age	hrs	Client Info		470	3128	3468
Filter Age	hrs	Client Info		470	3128	3468
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>135	14	8	13
Iron	ppm	ASTM D5185m	>420	9	112	16
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	1	9	<1
Lead	ppm	ASTM D5185m	>95	17	47	33
Copper	ppm	ASTM D5185m	>170	9	22	15
Tin	ppm	ASTM D5185m	>15	0	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

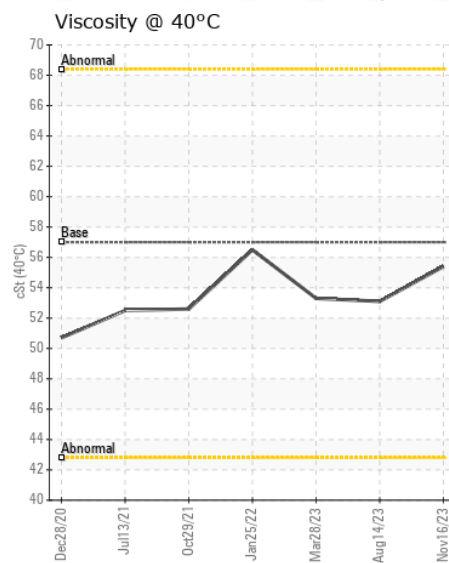
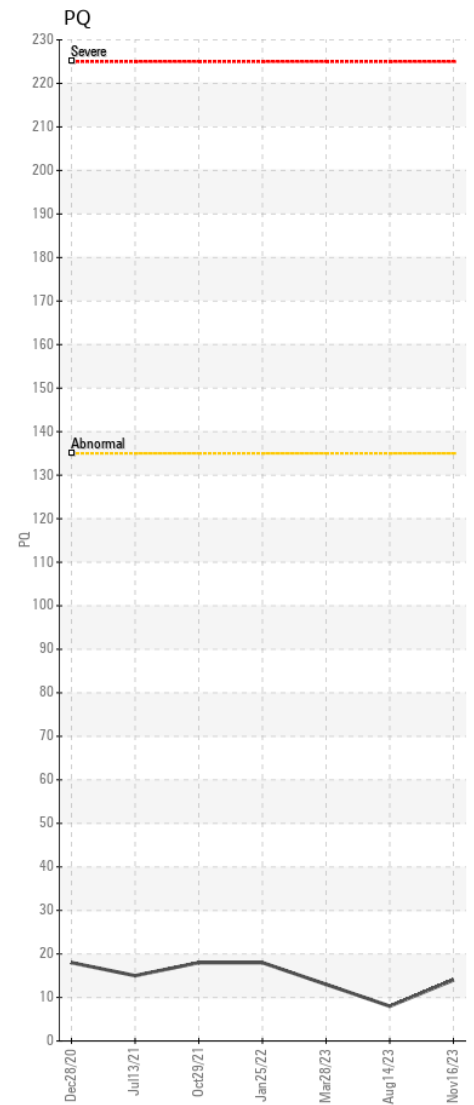
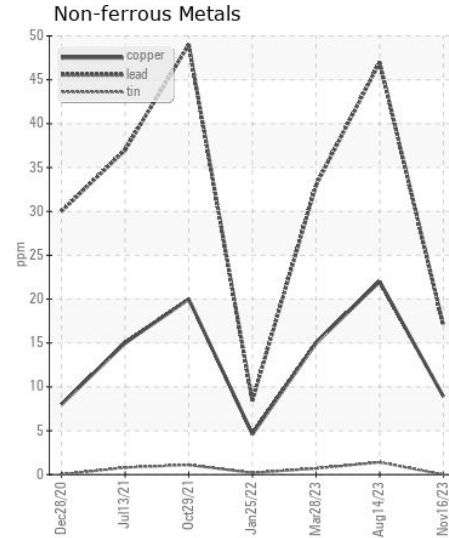
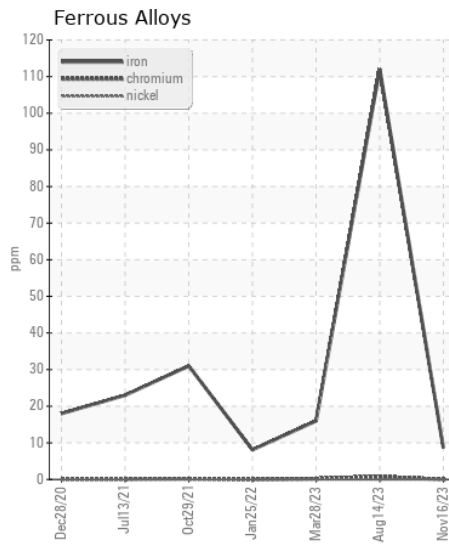
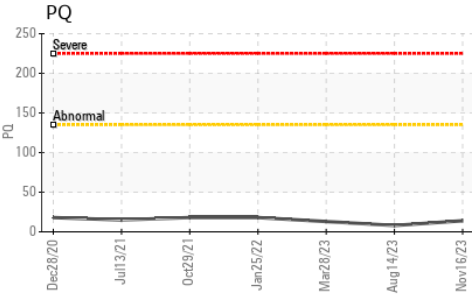
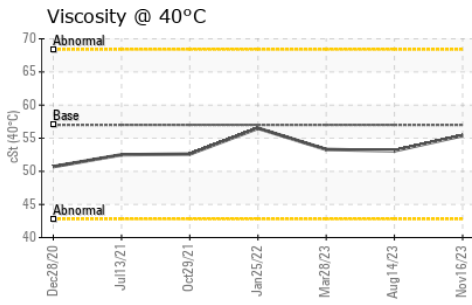
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	3	33	3
Potassium	ppm	ASTM D5185m	>20	2	2	<1
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		0	4	1
Boron	ppm	ASTM D5185m	6	<1	1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	1	1
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m	145	93	93	93
Calcium	ppm	ASTM D5185m	3570	3439	3269	3340
Phosphorus	ppm	ASTM D5185m	1290	949	953	945
Zinc	ppm	ASTM D5185m	1640	1177	1184	1190
Sulfur	ppm	ASTM D5185m		3810	4207	3873
Visc @ 40°C	cSt	ASTM D445	57.0	55.4	53.1	53.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042909 **Received** : 20 Nov 2023
Lab Number : 06012701 **Tested** : 21 Nov 2023
Unique Number : 10751845 **Diagnosed** : 22 Nov 2023 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

VESUVIUS
 1080 RIVER FRONT RD
 WURLAND, 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: