



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 6 - Ashland
Machine Id
JOHN DEERE 644K 25950 (S/N 1DW644KZAHF685060)
Component
Front Axle
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		LEC0010069	LEC0002785	LEC0002780
Sample Date		Client Info		29 May 2020	22 Jan 2020	12 Dec 2019
Machine Age	hrs	Client Info		4425	3812	3094
Oil Age	hrs	Client Info		2235	1622	0
Filter Age	hrs	Client Info		2235	718	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		16	24	17
Iron	ppm	ASTM D5185m	>750	38	39	36
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	1	0
Aluminum	ppm	ASTM D5185m	>21	<1	<1	3
Lead	ppm	ASTM D5185m	>49	56	49	50
Copper	ppm	ASTM D5185m	>101	17	15	13
Tin	ppm	ASTM D5185m		0	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

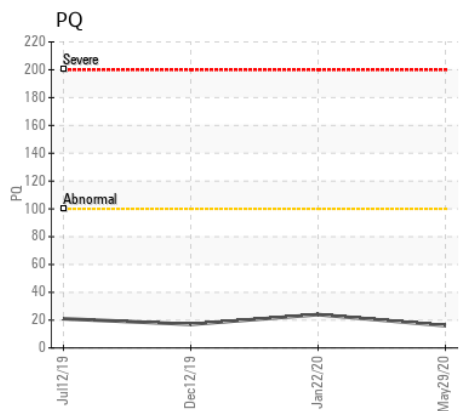
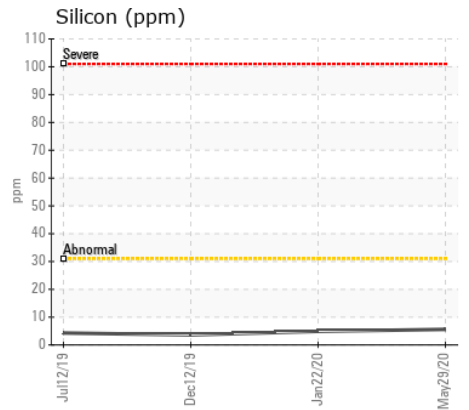
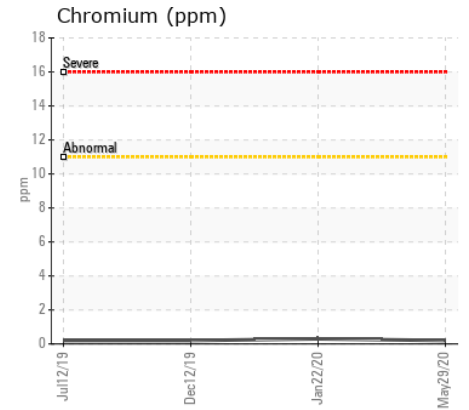
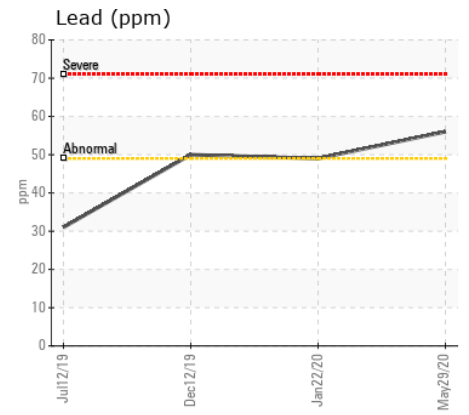
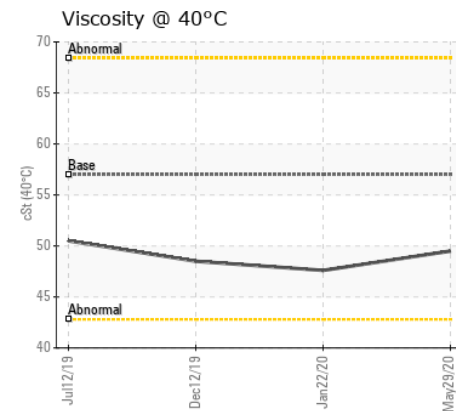
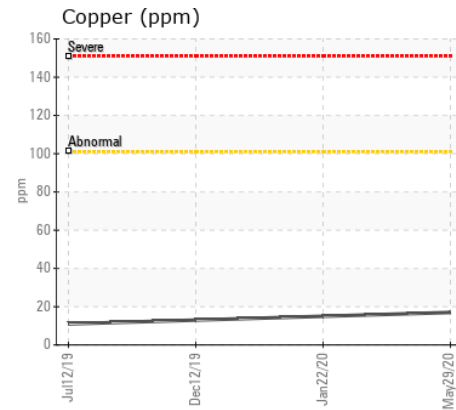
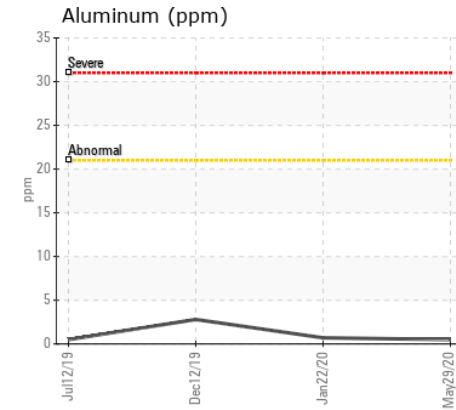
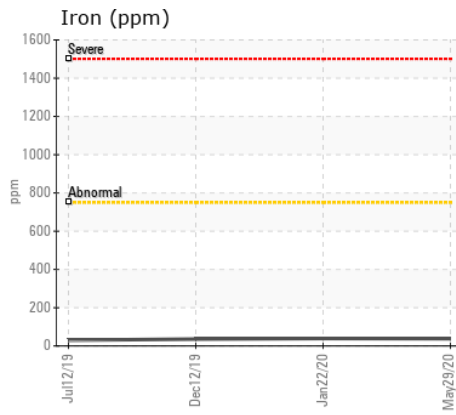
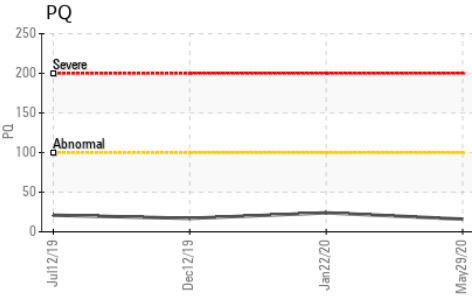
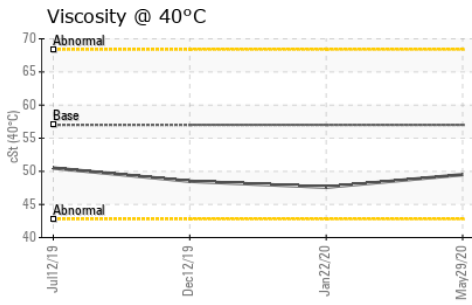
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>31	6	5	4
Potassium	ppm	ASTM D5185m	>20	5	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	3	0	3
Boron	ppm	ASTM D5185m	6	2	2	2
Barium	ppm	ASTM D5185m	0	1	3	<1
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m	145	99	106	103
Calcium	ppm	ASTM D5185m	3570	3548	3638	3556
Phosphorus	ppm	ASTM D5185m	1290	1064	1067	1044
Zinc	ppm	ASTM D5185m	1640	1235	1280	1188
Sulfur	ppm	ASTM D5185m		3058	3159	860
Visc @ 40°C	cSt	ASTM D445	57.0	49.5	47.6	48.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0010069 **Received** : 15 Jun 2020
Lab Number : 04999281 **Tested** : 16 Jun 2020
Unique Number : 9064434 **Diagnosed** : 16 Jun 2020 - Don Baldrige
Test Package : MOBCE (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: