



**WEAR CONTAMINATION FLUID CONDITION** 

**SEVERE ABNORMAL NORMAL** 

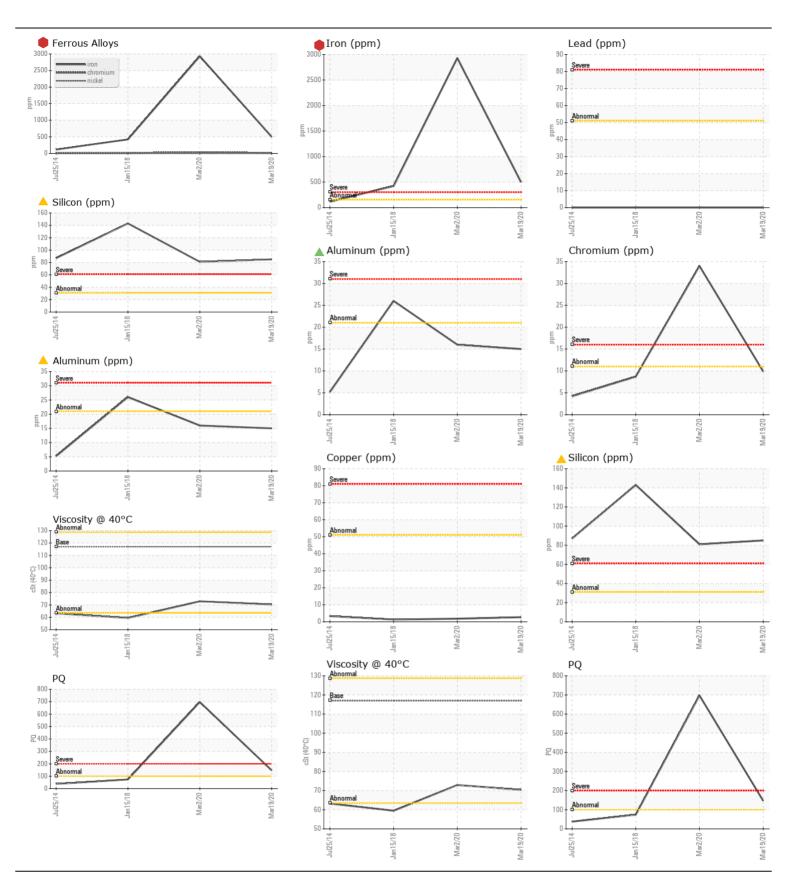


Store 2 - Beaver [1536 ASPEN] JOHN DEERE 350GL 1FF350GXADE809611

Component Pump Drive

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)

JOHN DEERE ENGINE OIL PEO	3 30 11 1344	40 (1	WIS)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LEC0008840	LEC0009543	LECP183077
	Sample Date		Client Info		19 Mar 2020	02 Mar 2020	15 Jan 2018
	Machine Age	hrs	Client Info		5770	5702	4028
	Oil Age	hrs	Client Info		1742	1674	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	SEVERE
WEAR	PQ		ASTM D8184		147	697	74
The iron level has decreased, but is still abnormal. Gear wear is indicated.	Iron	ppm	ASTM D5185m	>151	<b>499</b>	2930	<b>421</b>
	Chromium	ppm	ASTM D5185m	>11	10	<b>3</b> 4	9
	Nickel	ppm	ASTM D5185m		<1	1	0
	Titanium	ppm	ASTM D5185m		1	1	1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>21	<b>1</b> 5	<b>1</b> 6	<b>2</b> 6
	Lead	ppm	ASTM D5185m	>51	0	0	0
	Copper	ppm	ASTM D5185m	>51	3	2	1
	Tin	ppm	ASTM D5185m		2	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	<u>▲</u> 85	<u> </u>	<u> </u>
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	5	4	8
	Water		WC Method	>0.1	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	31	3	6
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		267	20	205
	Barium	ppm	ASTM D5185m		8	0	1
	Molybdenum	ppm	ASTM D5185m		241	47	242
	Manganese	ppm	ASTM D5185m		16	22	9
	Magnesium	ppm	ASTM D5185m		784	903	739
	Magnesiam						
	Calcium	ppm	ASTM D5185m		1784	1138	1540
	J	ppm	ASTM D5185m ASTM D5185m		1784 965	1138 1064	1540 938
	Calcium						
	Calcium Phosphorus	ppm	ASTM D5185m		965	1064	938





Laboratory Sample No. Lab Number **Unique Number** 

: LEC0008840 : 04941713 : 8971814

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 25 Mar 2020 Recieved Diagnosed : 26 Mar 2020 Diagnostician : Don Baldridge

Test Package : MOBCE ( Additional Tests: PQ ) 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)

**ASPEN CORP** 2400 RITTER DR DANIELS, WV US 25832 Contact: JASON ST CLAIR

jstclair@aspen-golf.com

T: (304)688-8753