

WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL

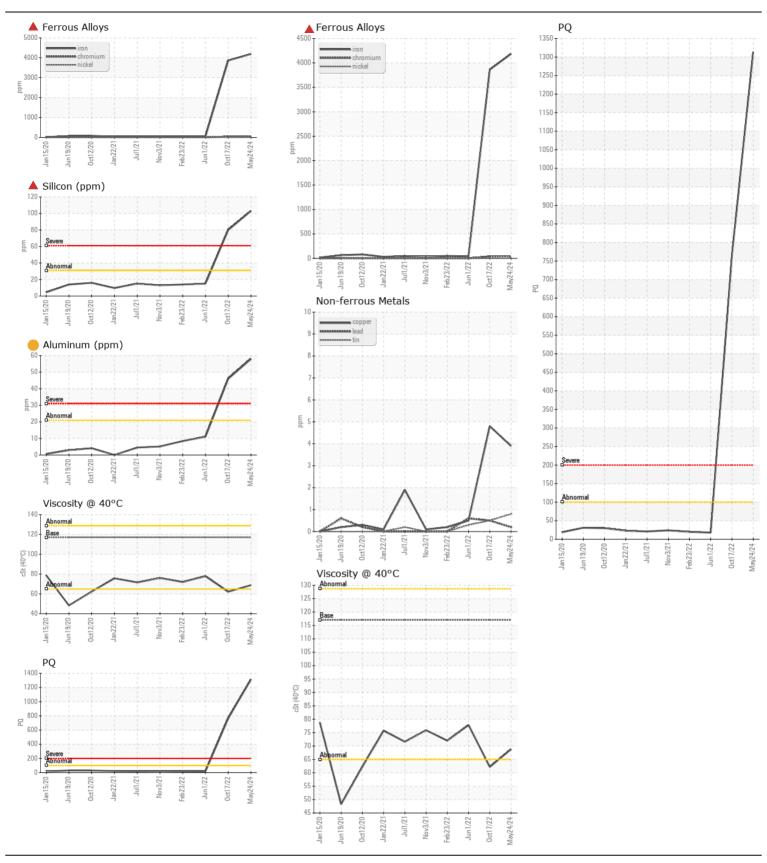
Store 2 - Beaver [RO#150373]

JOHN DEERE 2954D 1FF2954DCF0290217

Pump Drive

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

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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		LEC0051790	LEC0034823	LEC0029409
	Sample Date		Client Info		24 May 2024	17 Oct 2022	01 Jun 2022
	Machine Age	hrs	Client Info		11162	10565	9971
	Oil Age	hrs	Client Info		597	1084	490
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	NORMAL
WEAR	PQ		ASTM D8184		1313	765	18
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>151	▲ 4185	▲ 3863	43
	Chromium	ppm	ASTM D5185m		4 5	A 39	<1
	Nickel	ppm	ASTM D5185m		2	2	0
	Titanium	ppm	ASTM D5185m		2	1	<1
	Silver	ppm	ASTM D5185m		0	0	2
	Aluminum	ppm	ASTM D5185m	>21	58	46	11
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m	>51	4	5	<1
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	▲ MODER	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:11:		AOTM DEADE	04	A 400	• • • • • • • • • • • • • • • • • • • •	4.5
CONTAMINATION	Silicon	ppm	ASTM D5185m		▲ 103	A 80	15
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m		11	5	0
	Water		WC Method		NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
		scalar	*Visual	NONE	NONE	NONE NORML	NORML
	Appearance Odor	scalar	*Visual	NORML NORML	NORML NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
	Linuisilled Water		visuai	>0.1		NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	5	2	2
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		258	205	344
	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		219	169	243
	Manganese	ppm	ASTM D5185m		37	33	<1
	Magnesium	ppm	ASTM D5185m		688	538	754
	Calcium	ppm	ASTM D5185m		1450	2061	1445
	Phosphorus	ppm	ASTM D5185m		926	942	863
	Zinc	ppm	ASTM D5185m		974	995	987
	Sulfur	ppm	ASTM D5185m		3444	3796	2853
	Visc @ 40°C	cSt	ASTM D445	117	68.8	62.2	77.8







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06195705

: LEC0051790 Unique Number: 11057828

Received **Tested** Diagnosed

: 30 May 2024 : 31 May 2024

: 01 Jun 2024 - Don Baldridge

Test Package : CONST (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)

MOUNTAINEER MECHANIZED

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