

WEAR CONTAMINATION FLUID CONDITION **ATTENTION SEVERE NORMAL**

Store 3 - Norton

JOHN DEERE 748LII 1DW748LBEKF696892

Rear Differential

JOHN DEERE HY-GARD HYD/	TRANS (8 GA	4L)					
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. Resample at the next service interval to monitor. (Customer Sample Comment: PUMP FAILURE)	Sample Number		Client Info		LEC0045061	LEC0041101	LEC0044747
	Sample Date		Client Info		11 Apr 2024	21 Mar 2024	06 Dec 2023
	Machine Age	hrs	Client Info		5496	5483	5229
	Oil Age	hrs	Client Info		13	24	1239
	Filter Age	hrs	Client Info		13	24	229
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR	PQ		ASTM D8184		102	1008	130
All component wear rates are normal for time on oil. The wear metal levels do not reflect the reported failure.	Iron	ppm	ASTM D5185m	>1501	102	<u> </u>	303
	Chromium	ppm	ASTM D5185m	>11	<1	5	2
	Nickel	ppm	ASTM D5185m	>10	0	9	3
	Titanium	ppm	ASTM D5185m		2	23	1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>21	<u> </u>	319	1 1
	Lead	ppm	ASTM D5185m	>51	0	1	2
	Copper	ppm	ASTM D5185m	>101	5	9	4
	Tin	ppm	ASTM D5185m	>10	<1	2	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	4 97	1380	▲ 32
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The water content is negligible.	Potassium	ppm	ASTM D5185m	>20	2	63	3
	Water		WC Method	>0.1	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	MODER	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	HAZY	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	▲ 0.2%	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	2	8	0
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	6	9	7	3
	Barium	ppm	ASTM D5185m	0	0	2	0
	Molybdenum	ppm	ASTM D5185m	0	8	6	4
	Manganese	ppm	ASTM D5185m		3	14	3
	Magnesium	ppm	ASTM D5185m	145	122	118	62
	Calcium	ppm	ASTM D5185m	3570	3489	3240	2293
	Phosphorus	ppm	ASTM D5185m	1290	1095	1003	728
	Zinc	ppm	ASTM D5185m	1640	1276	1195	1035
	Sulfur	ppm	ASTM D5185m		4311	3941	3107

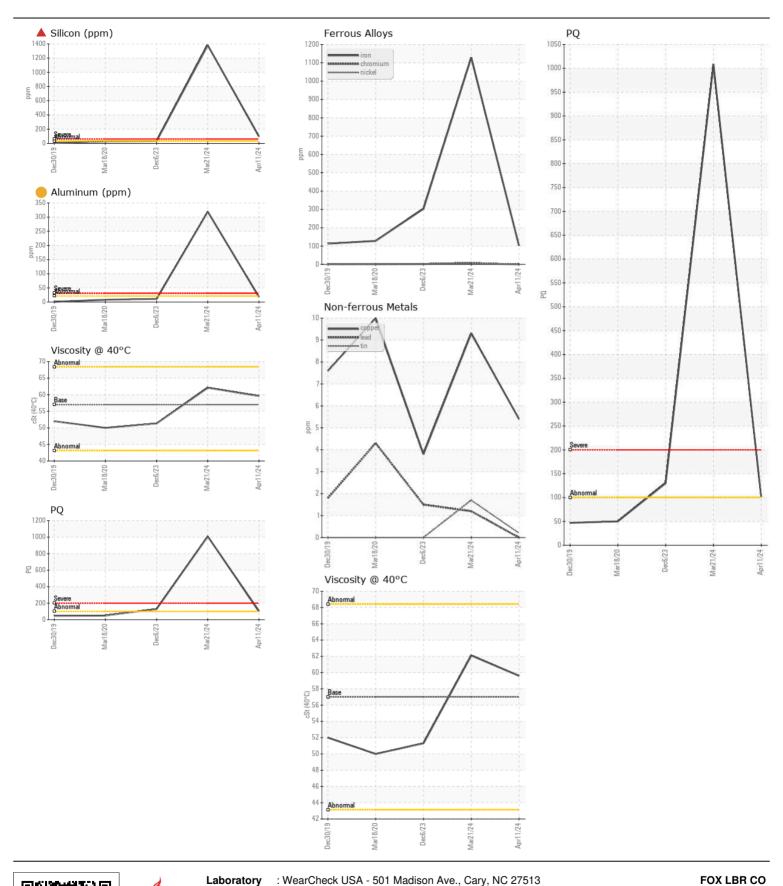
Visc @ 40°C

cSt

ASTM D445 57.0

62.1

59.6





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0045061 Lab Number : 06147642

Unique Number : 10977720

Received : 12 Apr 2024 Tested

: 15 Apr 2024 Diagnosed

: 16 Apr 2024 - Don Baldridge Test Package : CONST (Additional Tests: PQ)

PO BOX 418 MILL CREEK, WV US 26280

Contact: STEVE FOX

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: (304)335-6108

F: