



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Store 5 - Cross Lanes [151847]

Machine Id JOHN DEERE 50D 1TT050DXLCG277157 (S/N 1FF050DXLCG277157)

Component Right Propel Gearbox

Fluid JOHN DEERE GL-5 80W90 (1 QTS)

RECOMMENDATION

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.

WEAR

The iron level is severe. Gear wear is indicated.

CONTAMINATION

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

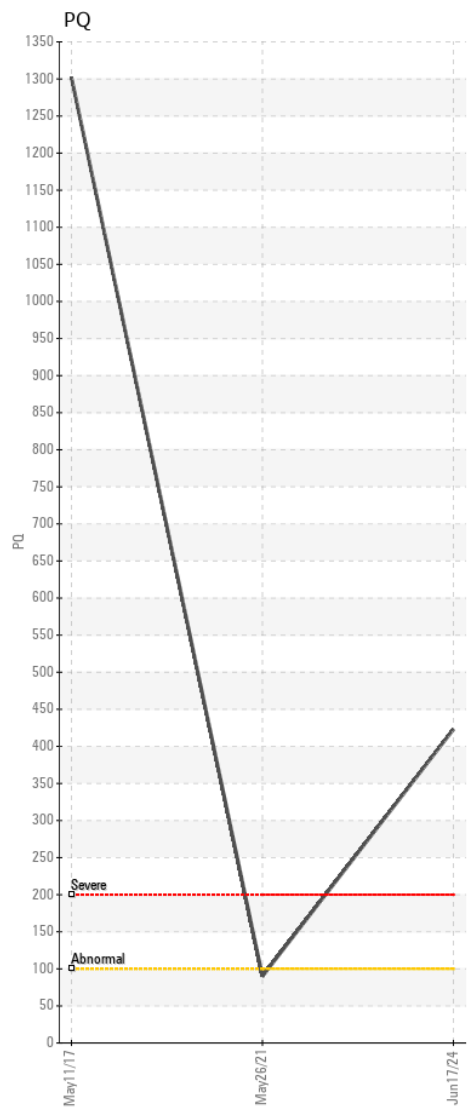
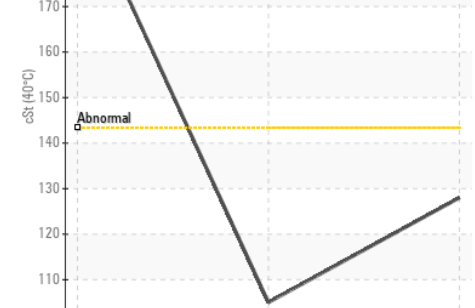
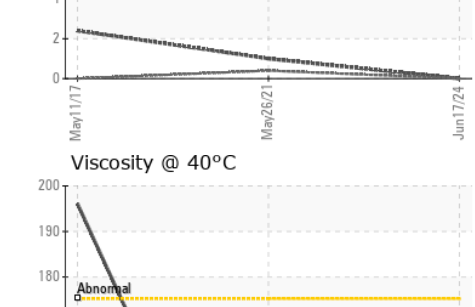
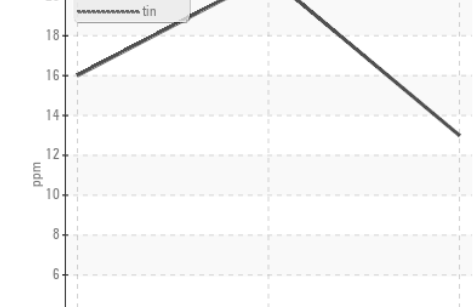
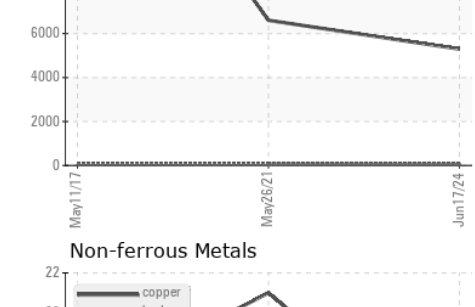
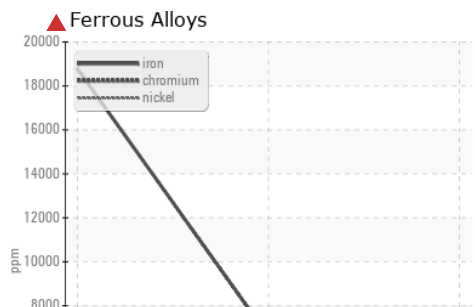
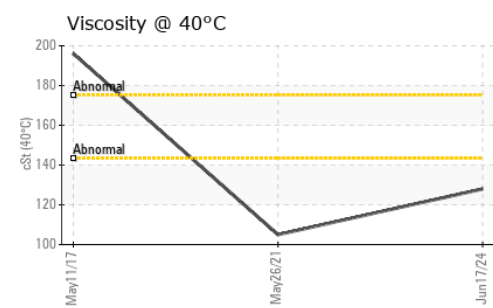
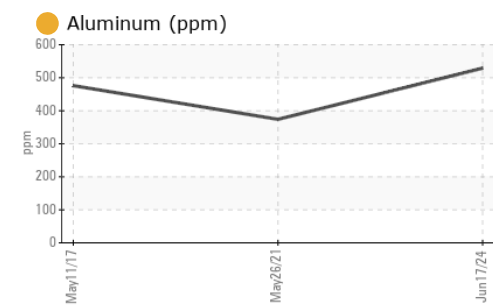
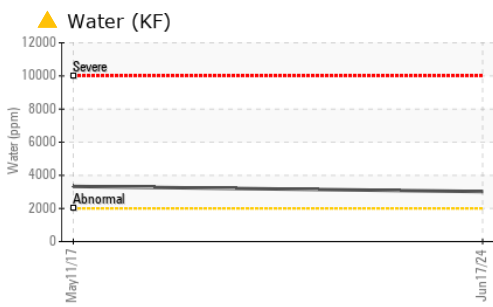
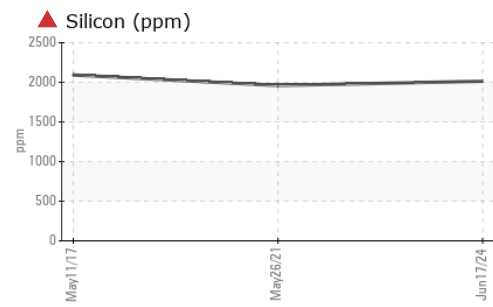
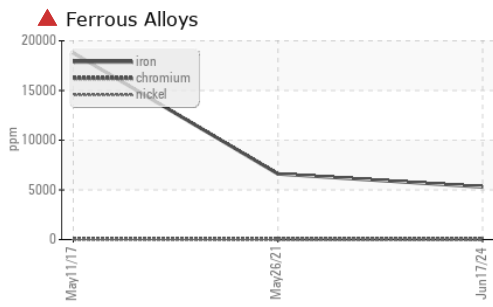
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041597	LEC0017935	LECP173952
Sample Date		Client Info		17 Jun 2024	26 May 2021	11 May 2017
Machine Age	hrs	Client Info		4311	3589	2222
Oil Age	hrs	Client Info		722	1367	1500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE

PQ		ASTM D8184		423	90	1302
Iron	ppm	ASTM D5185m	>1250	▲ 5296	▲ 6606	▲ 18780
Chromium	ppm	ASTM D5185m	>10	▲ 45	▲ 58	▲ 78
Nickel	ppm	ASTM D5185m	>10	▲ 24	▲ 22	▲ 31
Titanium	ppm	ASTM D5185m		41	35	39
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m		● 529	● 374	● 476
Lead	ppm	ASTM D5185m		0	1	2
Copper	ppm	ASTM D5185m		13	21	16
Tin	ppm	ASTM D5185m		0	<1	0
Vanadium	ppm	ASTM D5185m		2	1	2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m		▲ 2014	▲ 1960	▲ 2093
Potassium	ppm	ASTM D5185m	>20	137	110	126
Water	%	ASTM D6304	>0.2	▲ 0.302	---	▲ 0.333
ppm Water	ppm	ASTM D6304	>2000	▲ 3020	---	▲ 3330
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	>0.2	0.2%	NEG	0.2%

Sodium	ppm	ASTM D5185m		16	16	18
Boron	ppm	ASTM D5185m		33	106	55
Barium	ppm	ASTM D5185m		4	2	12
Molybdenum	ppm	ASTM D5185m		6	6	0
Manganese	ppm	ASTM D5185m		40	52	62
Magnesium	ppm	ASTM D5185m		69	40	34
Calcium	ppm	ASTM D5185m		1086	1508	98
Phosphorus	ppm	ASTM D5185m		512	933	388
Zinc	ppm	ASTM D5185m		300	764	260
Sulfur	ppm	ASTM D5185m		16912	17722	50564
Visc @ 40°C	cSt	ASTM D445		128	● 105	196.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0041597 **Received** : 19 Jun 2024  
**Lab Number** : 06214979 **Tested** : 20 Jun 2024  
**Unique Number** : 11087843 **Diagnosed** : 21 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**LESLIE EQUIPMENT COMPANY**  
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Certificate L2367  
 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)