



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Store 5 - Cross Lanes [151847]

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

Component
Left 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 recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049436	LEC0017943	LECP173941
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	NORMAL	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184		318	21	1299
Iron	ppm	ASTM D5185m	>1250	1031	3	▲ 4660
Chromium	ppm	ASTM D5185m	>10	10	0	▲ 67
Nickel	ppm	ASTM D5185m	>10	8	<1	23
Titanium	ppm	ASTM D5185m		6	0	20
Silver	ppm	ASTM D5185m		0	4	0
Aluminum	ppm	ASTM D5185m		● 61	0	● 225
Lead	ppm	ASTM D5185m		0	<1	2
Copper	ppm	ASTM D5185m		2	<1	14
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	1
White Metal	scalar	*Visual	NONE	MODER	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

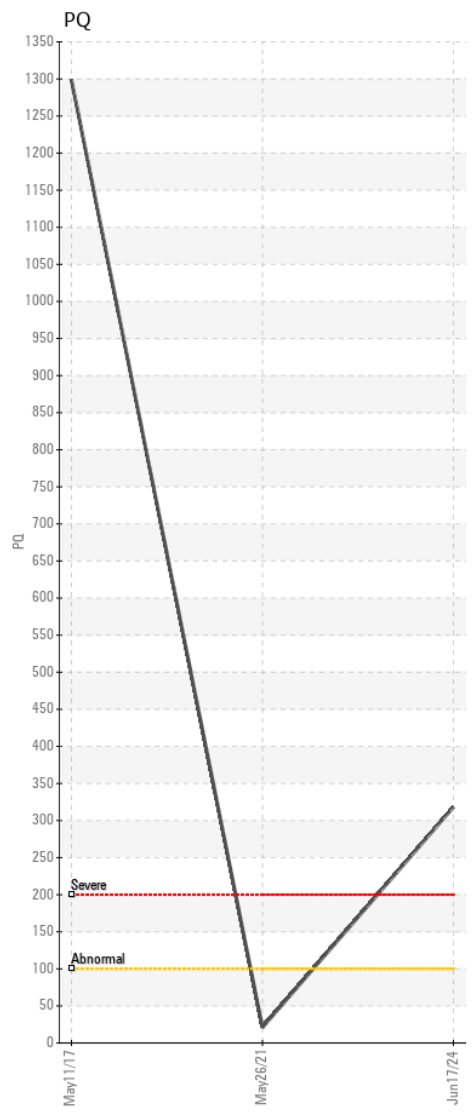
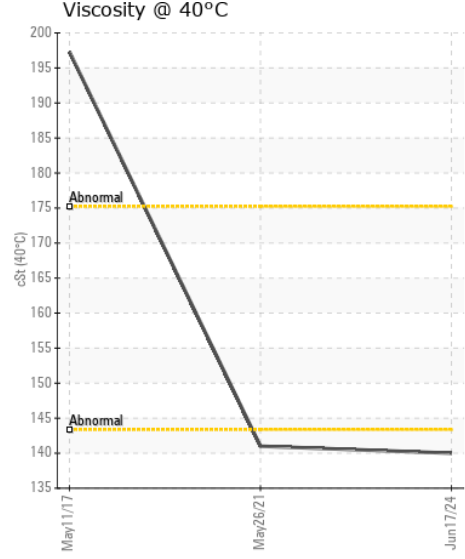
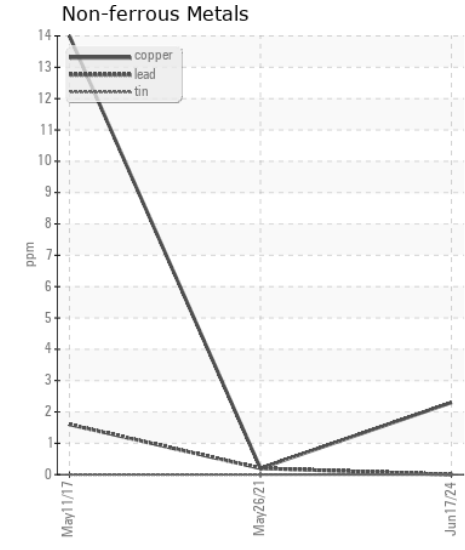
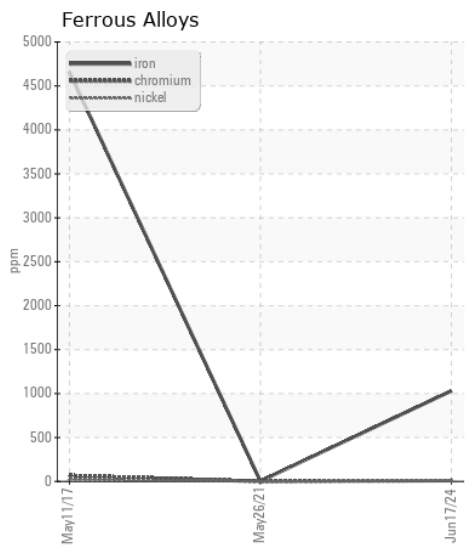
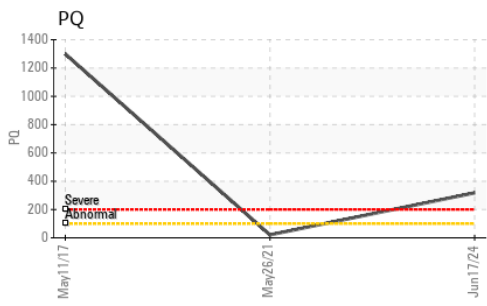
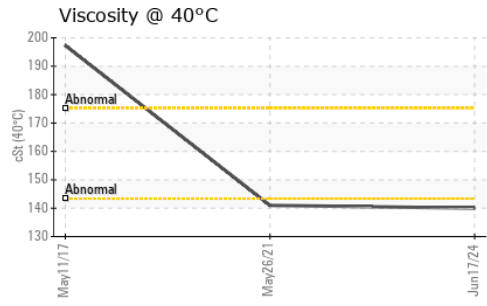
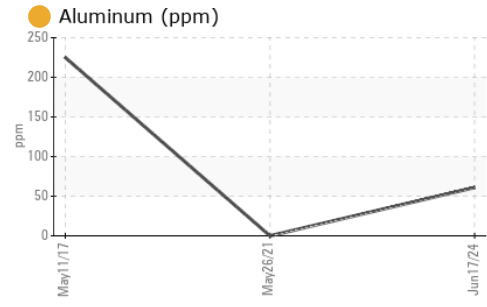
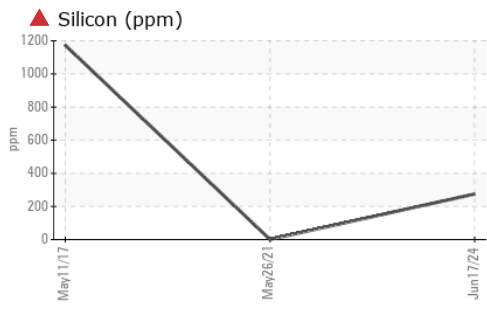
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 275	1	▲ 1173
Potassium	ppm	ASTM D5185m	>20	16	<1	59
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	0	12
Boron	ppm	ASTM D5185m		2	4	51
Barium	ppm	ASTM D5185m		2	0	10
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		9	<1	50
Magnesium	ppm	ASTM D5185m		9	6	8
Calcium	ppm	ASTM D5185m		81	87	35
Phosphorus	ppm	ASTM D5185m		265	280	352
Zinc	ppm	ASTM D5185m		125	9	207
Sulfur	ppm	ASTM D5185m		18385	15158	52931
Visc @ 40°C	cSt	ASTM D445		140	141	197.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049436 **Received** : 19 Jun 2024
Lab Number : 06214980 **Tested** : 20 Jun 2024
Unique Number : 11087844 **Diagnosed** : 21 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)