



OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION**

SEVERE SEVERE NORMAL



Store 5 - Cross Lanes

JOHN DEERE 210G EX46 (S/N 1FF210GXCJF526281)

Pump Drive

GEAR OIL SAE 90 (1 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LEC0049303	LEC0045444	LEC0042554
	Sample Date		Client Info		10 Jun 2024	02 Nov 2023	06 Jul 2023
	Machine Age	hrs	Client Info		4122	3570	3090
	Oil Age	hrs	Client Info		500	980	3090
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	None
	Sample Status				SEVERE	ATTENTION	NORMAL
WEAR	PQ		ASTM D8184		1594	25	35
The iron and chrome levels are severe. Gear wear is indicated.	Iron	ppm	ASTM D5185m	>151	▲ 5795	89	88
	Chromium	ppm	ASTM D5185m		▲ 60	<1	1
	Nickel	ppm	ASTM D5185m		3	0	0
	Titanium	ppm	ASTM D5185m		30	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>21	567	2	3
	Lead	ppm	ASTM D5185m	>51	0	0	0
	Copper	ppm	ASTM D5185m	>51	8	<1	0
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	Vanadium	ppm	ASTM D5185m		1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	1336	21	24
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	134	0	3
	Water		WC Method	>0.1	NEG	NEG	NEG
	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	16	<1	2
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	400	203	29	29
	Barium	ppm	ASTM D5185m	200	4	0	0
	Molybdenum	ppm	ASTM D5185m	12	173	15	15
	Manganese	ppm	ASTM D5185m		50	1	1
	Magnesium	ppm	ASTM D5185m		600	144	162
	Calcium	ppm	ASTM D5185m		1358	2953	3409
	Phosphorus	ppm	ASTM D5185m		916	864	1040
	Zinc	ppm	ASTM D5185m		699	1128	1246
	Sulfur	ppm	ASTM D5185m	22500	7066	4476	5290

Visc @ 40°C

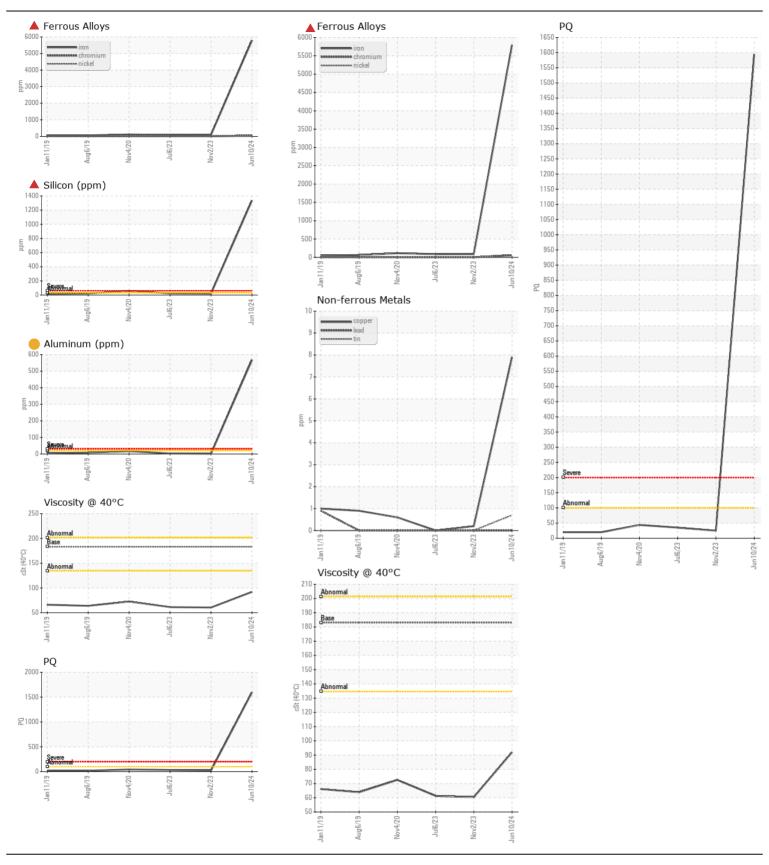
cSt

ASTM D445 183

61.3

60.4

Submitted By: JEFF SHERRY





Certificate L2367

Laboratory Sample No. Lab Number

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

: LEC0049303 : 06227722

Unique Number : 11111215 Test Package : CONST (Additional Tests: PQ)

Received : 03 Jul 2024 **Tested** Diagnosed

: 05 Jul 2024

: 06 Jul 2024 - Don Baldridge

US 26330 Contact: JESSE WILBURN jesseowilburn@gmail.com

T: (740)440-0927 F:

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)

LANE PIPELINE

2946 E MAIN ST

BRIDGEPORT, WV