



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 1 - Cowen [143801]
Machine Id
JOHN DEERE 210G 1FF210GXCF526717 (S/N 003173)
Component
Pump Drive
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0044272	LEC0036914	LEC0036893
Sample Date		Client Info		05 Oct 2023	09 May 2023	01 Feb 2023
Machine Age	hrs	Client Info		8187	7618	7062
Oil Age	hrs	Client Info		1125	556	1175
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		12	14	12
Iron	ppm	ASTM D5185m	>151	75	65	82
Chromium	ppm	ASTM D5185m	>11	1	1	2
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	0	7	4
Lead	ppm	ASTM D5185m	>51	0	0	0
Copper	ppm	ASTM D5185m	>51	<1	1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

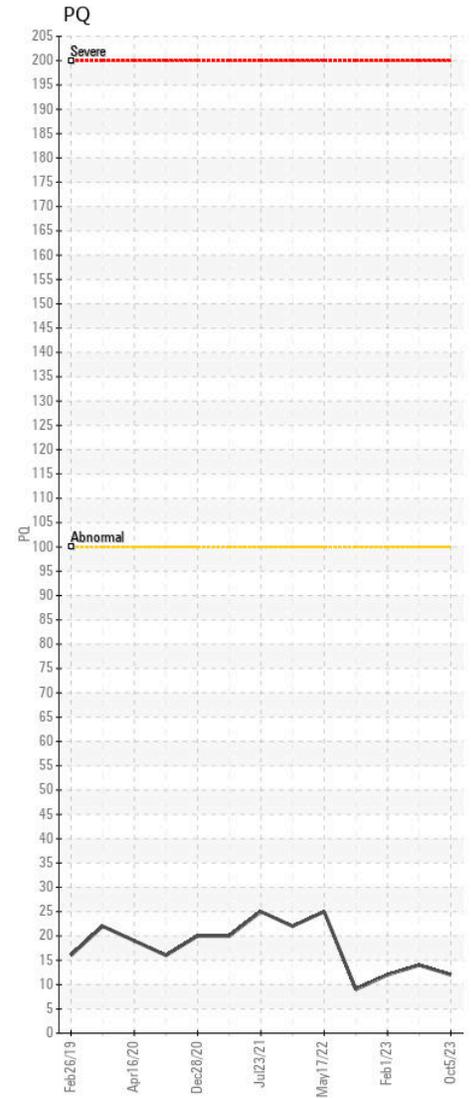
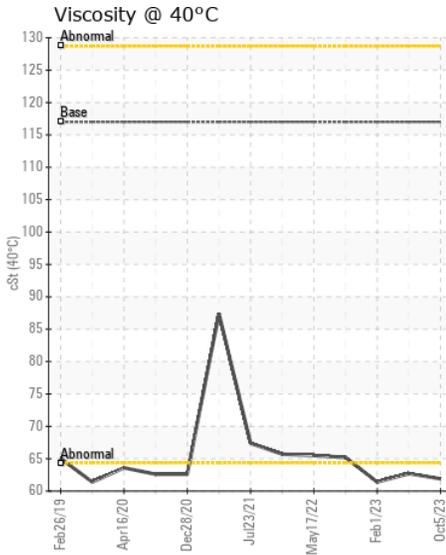
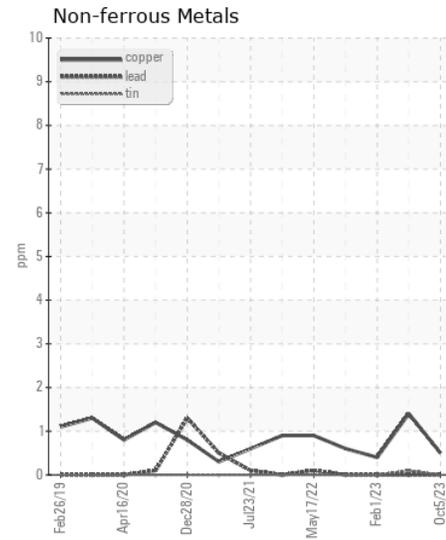
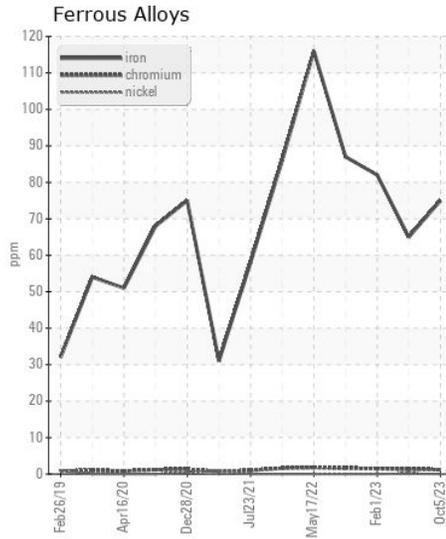
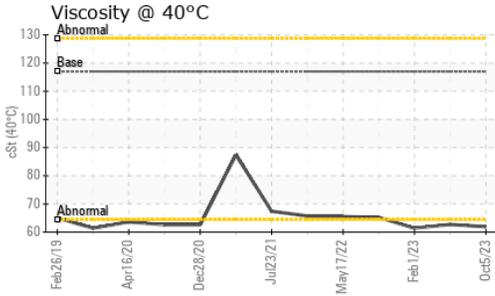
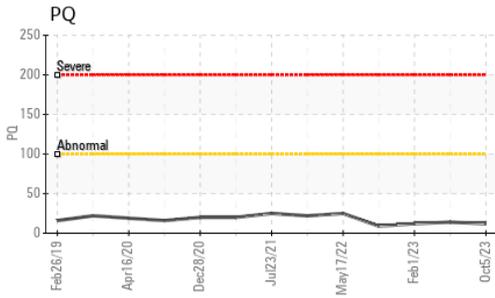
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	16	16	17
Potassium	ppm	ASTM D5185m	>20	4	2	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

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	0	2	1
Boron	ppm	ASTM D5185m		163	161	159
Barium	ppm	ASTM D5185m		2	0	<1
Molybdenum	ppm	ASTM D5185m		160	148	143
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		408	432	374
Calcium	ppm	ASTM D5185m		2371	2474	2552
Phosphorus	ppm	ASTM D5185m		1008	1000	1010
Zinc	ppm	ASTM D5185m		1147	1166	1144
Sulfur	ppm	ASTM D5185m		4585	5138	4394
Visc @ 40°C	cSt	ASTM D445	117	61.9	62.7	61.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044272 **Received** : 10 Oct 2023
Lab Number : 05974329 **Diagnosed** : 12 Oct 2023
Unique Number : 10686279 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)