



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 210G 1FF210GXKNF530219
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049696	LEC0042400	LEC0038117
Sample Date		Client Info		13 Mar 2024	26 Jun 2023	03 Jan 2023
Machine Age	hrs	Client Info		1781	1006	621
Oil Age	hrs	Client Info		775	385	621
Filter Age	hrs	Client Info		775	385	621
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	37	22	43
Chromium	ppm	ASTM D5185m	>11	1	<1	2
Nickel	ppm	ASTM D5185m	>5	7	6	12
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	5	8	6
Lead	ppm	ASTM D5185m	>26	2	3	8
Copper	ppm	ASTM D5185m	>26	20	70	▲ 507
Tin	ppm	ASTM D5185m	>4	1	2	3
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

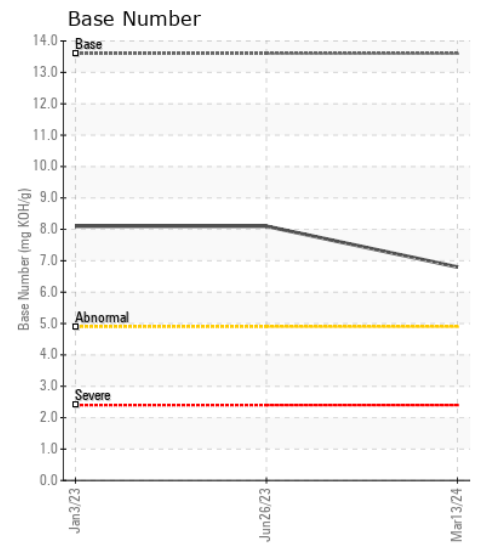
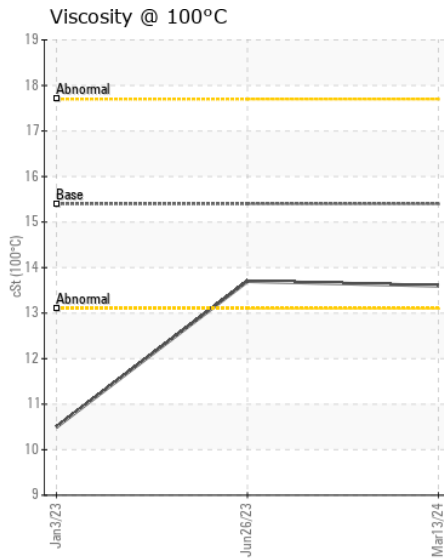
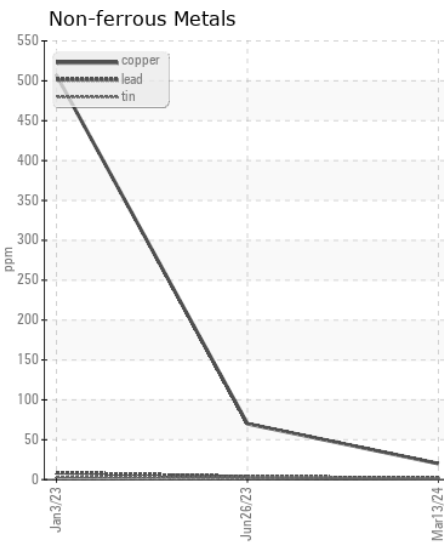
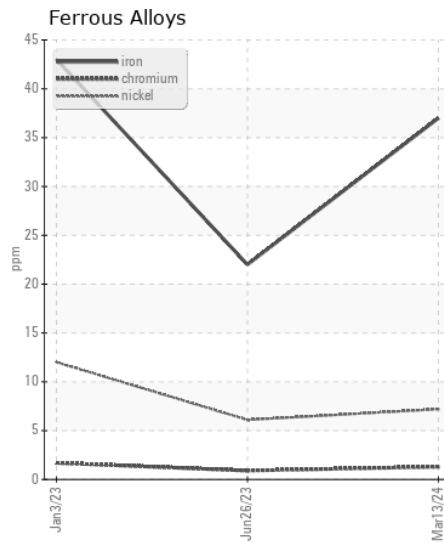
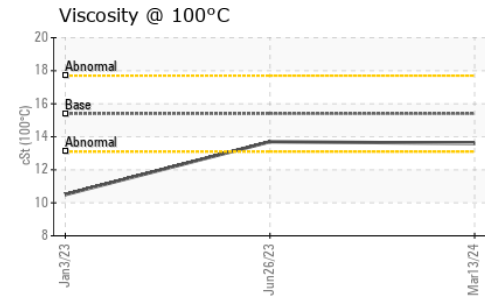
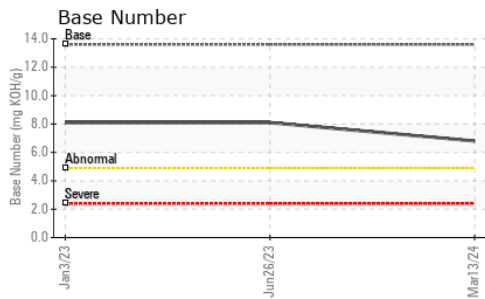
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	9	8	11
Potassium	ppm	ASTM D5185m	>20	3	3	3
Fuel		WC Method	>2.1	<1.0	<1.0	0.8
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.5	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.8	23.9	25.2
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	>0.21	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	3	5	6
Boron	ppm	ASTM D5185m		79	229	150
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		253	259	251
Manganese	ppm	ASTM D5185m		1	3	5
Magnesium	ppm	ASTM D5185m		771	877	891
Calcium	ppm	ASTM D5185m		1666	1749	1687
Phosphorus	ppm	ASTM D5185m		893	961	905
Zinc	ppm	ASTM D5185m		1152	1190	1154
Sulfur	ppm	ASTM D5185m		3028	3520	3272
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	20.1	21.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.8	8.1	8.1
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	● 10.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049696 **Received** : 19 Mar 2024
Lab Number : 06122159 **Tested** : 20 Mar 2024
Unique Number : 10936310 **Diagnosed** : 20 Mar 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

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)

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