



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 200DLC 1FF200DXLBD512857

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 QTS)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0138400	JRMC402869	JR0034390
Sample Date		Client Info		06 Dec 2022	23 Nov 2020	03 Feb 2020
Machine Age	hrs	Client Info		9276	8215	7748
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	▲ 72	▲ 76	▲ 121
Chromium	ppm	ASTM D5185m	>11	3	6	▲ 19
Nickel	ppm	ASTM D5185m	>5	1	1	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	7	6	12
Lead	ppm	ASTM D5185m	>26	2	3	4
Copper	ppm	ASTM D5185m	>26	1	2	6
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

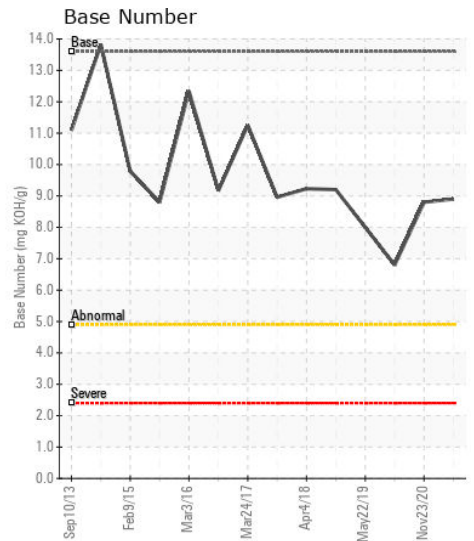
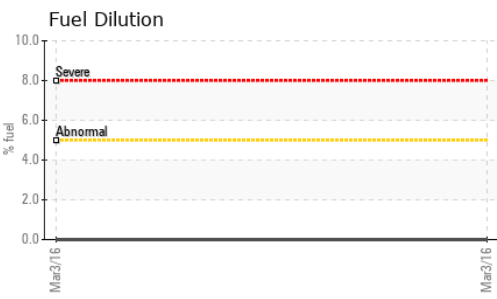
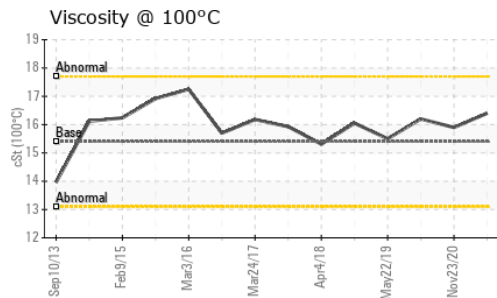
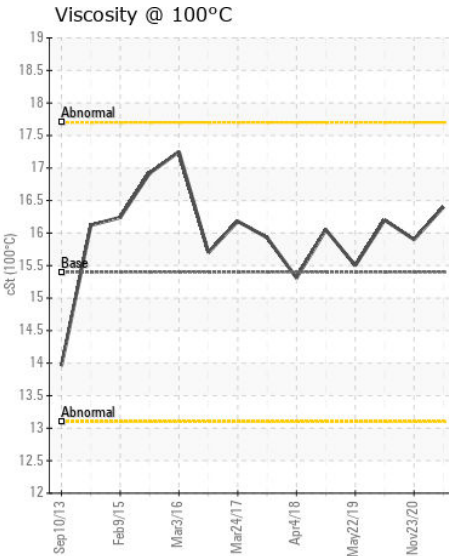
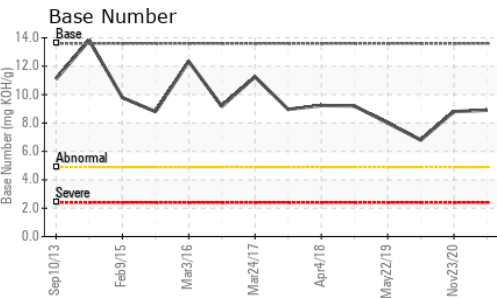
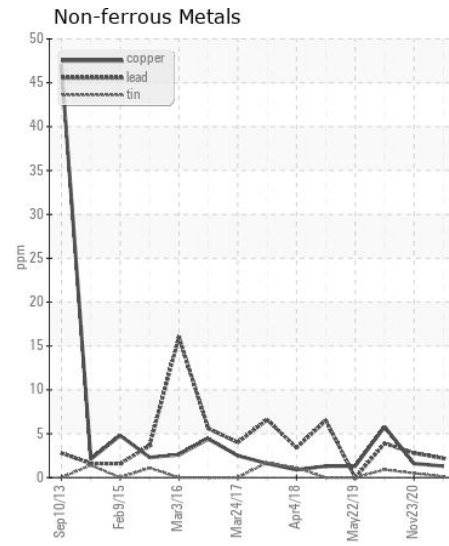
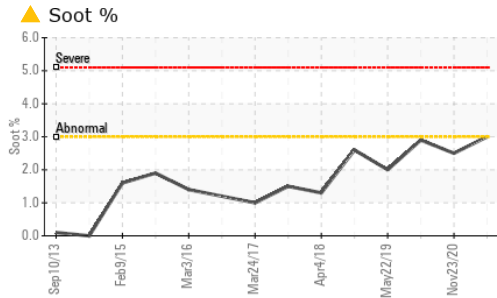
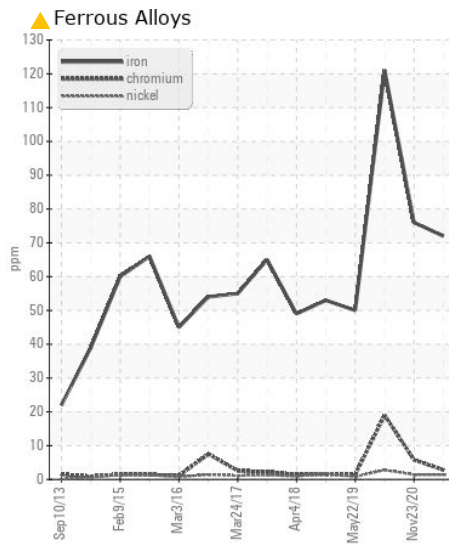
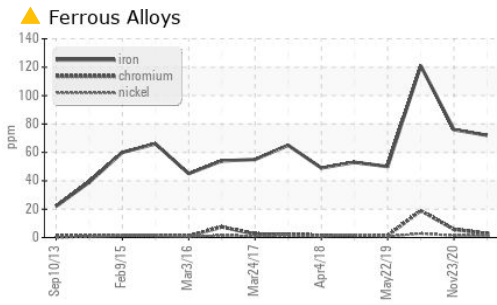
There is an abnormal amount of solids and carbon present in the oil.

Silicon	ppm	ASTM D5185m	>22	10	3	9
Potassium	ppm	ASTM D5185m	>20	4	3	4
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	▲ 3	2.5	2.9
Nitration	Abs/cm	*ASTM D7624	>20	13.0	11	11
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.7	27.7	27.9
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.

Sodium	ppm	ASTM D5185m	>31	2	5	18
Boron	ppm	ASTM D5185m		133	161	114
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		218	194	184
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		661	618	588
Calcium	ppm	ASTM D5185m		1929	1861	1642
Phosphorus	ppm	ASTM D5185m		1026	932	822
Zinc	ppm	ASTM D5185m		1278	1195	942
Sulfur	ppm	ASTM D5185m		3951	2809	3079
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.4	19.3	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	8.8	6.8
Visc @ 100°C	cSt	ASTM D445	15.4	16.4	15.9	16.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0138400 **Received** : 07 Dec 2022
Lab Number : 05710810 **Diagnosed** : 09 Dec 2022
Unique Number : 10245385 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, 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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