



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

BURKEVILLE

Machine Id

JOHN DEERE 300D M01-0305 1DW300DXECE650170

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0124857	JR0199725	JRMC412180
Sample Date		Client Info		01 May 2024	08 Mar 2024	21 Mar 2016
Machine Age	hrs	Client Info		760	11804	2748
Oil Age	hrs	Client Info		261	0	188
Filter Age	hrs	Client Info		261	0	188
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	24	19	33
Chromium	ppm	ASTM D5185m	>11	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	10	0	4
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	1	4
Lead	ppm	ASTM D5185m	>26	<1	0	<1
Copper	ppm	ASTM D5185m	>26	4	1	9
Tin	ppm	ASTM D5185m	>4	1	<1	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

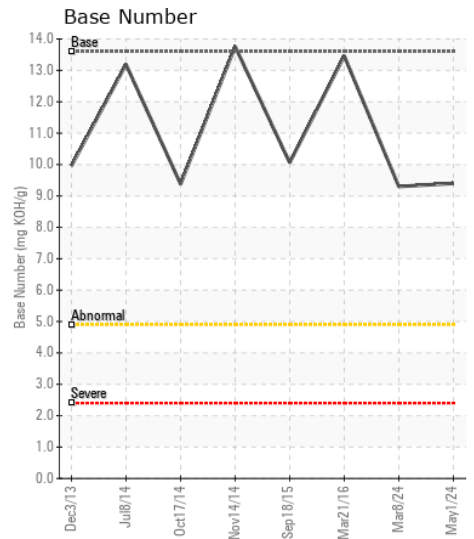
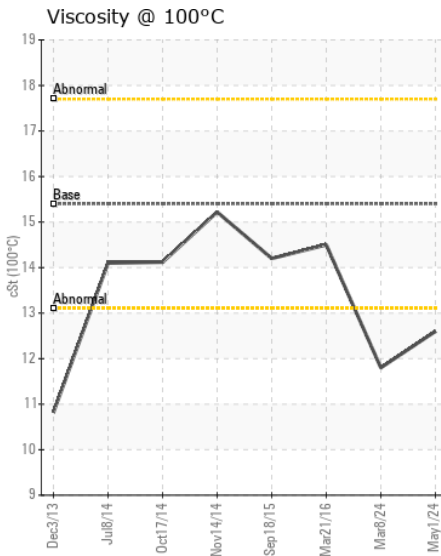
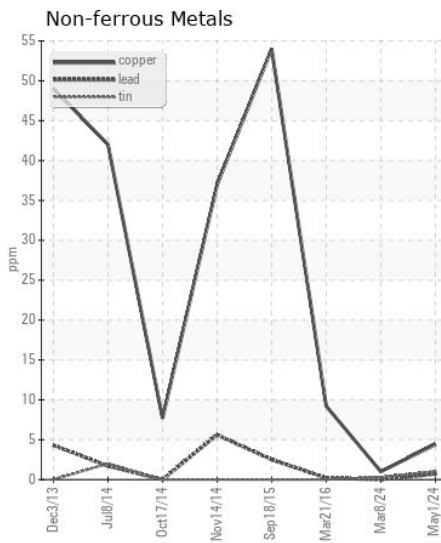
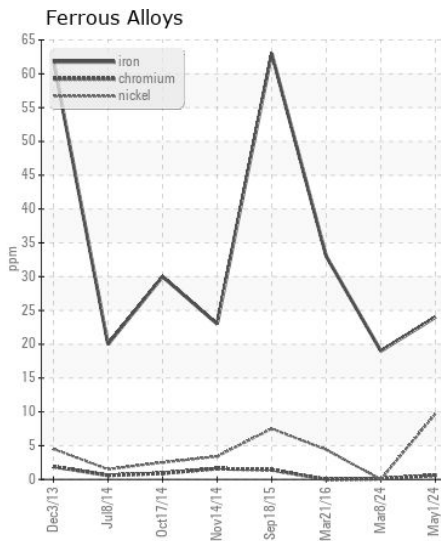
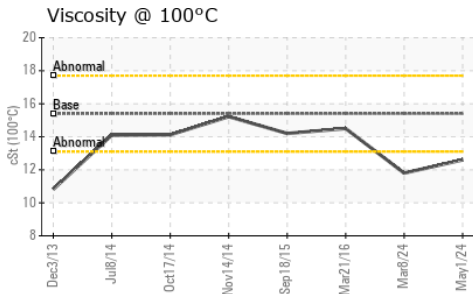
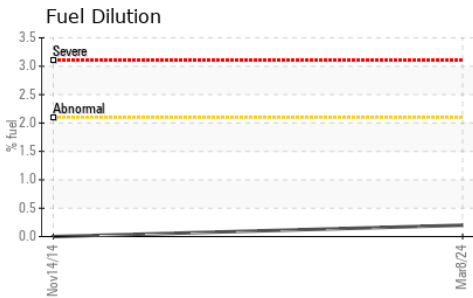
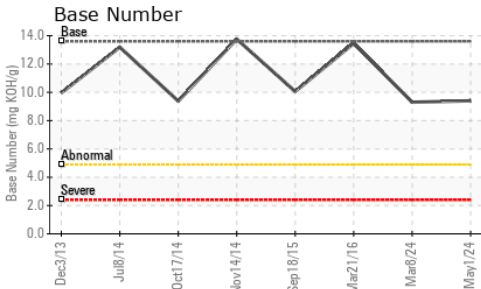
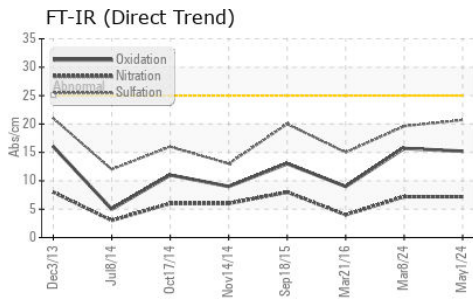
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>22	8	4	7
Potassium	ppm	ASTM D5185m	>20	8	0	6
Fuel	%	ASTM D3524	>2.1	<1.0	0.2	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.2	4.
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	19.6	15.
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	0	2	59
Boron	ppm	ASTM D5185m		300	88	241
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		265	64	246
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		785	987	855
Calcium	ppm	ASTM D5185m		1404	997	1339
Phosphorus	ppm	ASTM D5185m		950	999	780
Zinc	ppm	ASTM D5185m		1034	1200	969
Sulfur	ppm	ASTM D5185m		3292	3544	2788
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	15.7	9.
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.4	9.3	13.46
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	11.8	14.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0124857 **Received** : 10 May 2024
Lab Number : 06176577 **Tested** : 13 May 2024
Unique Number : 11022630 **Diagnosed** : 14 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: FuelDilution, TBN)

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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)