



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W22170-DUNHAM]

Machine Id
JOHN DEERE 3025E 1LV3025ELJJ125167

Component
Diesel Engine

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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0210846	JR0164018	JR0082088
Sample Date		Client Info		09 May 2024	26 Apr 2023	02 Mar 2021
Machine Age	hrs	Client Info		95	68	29
Oil Age	hrs	Client Info		95	0	0
Filter Age	hrs	Client Info		95	0	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Filter Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	ABNORMAL	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	6	7	12
Chromium	ppm	ASTM D5185m	>11	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	2	6
Lead	ppm	ASTM D5185m	>26	0	0	2
Copper	ppm	ASTM D5185m	>26	1	3	23
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

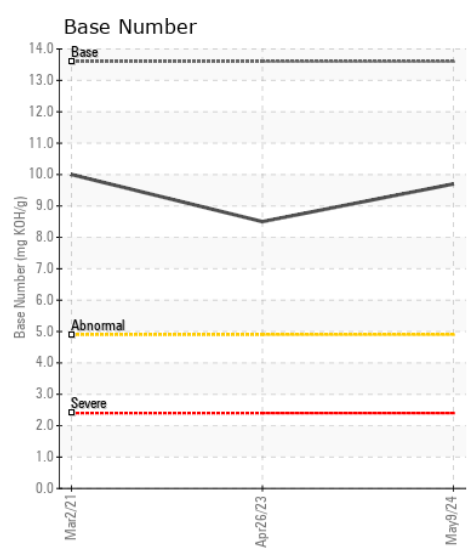
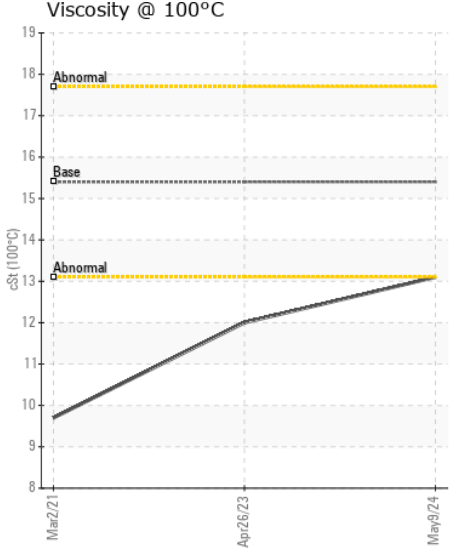
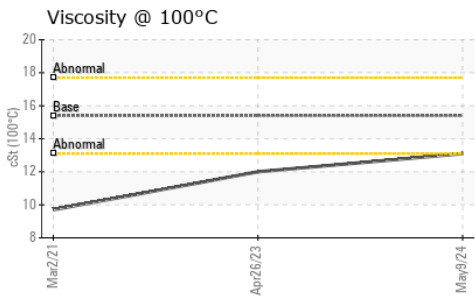
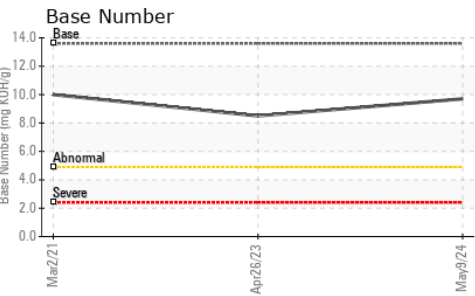
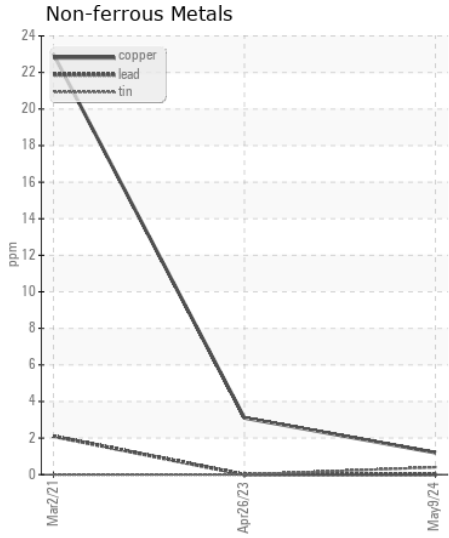
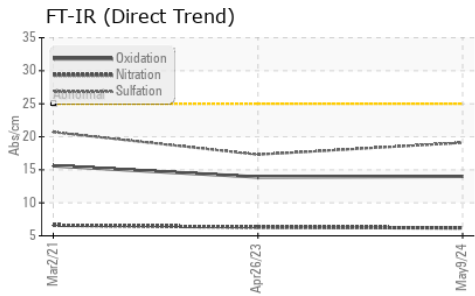
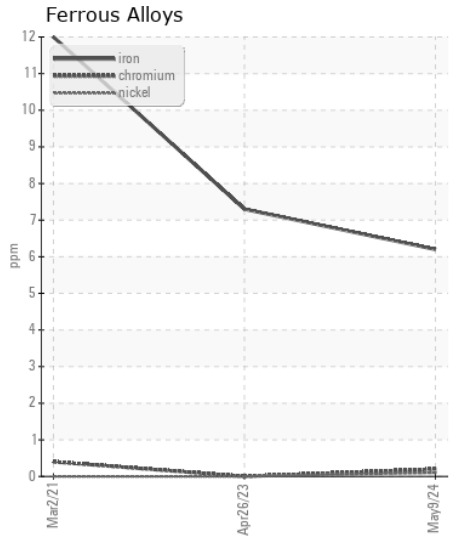
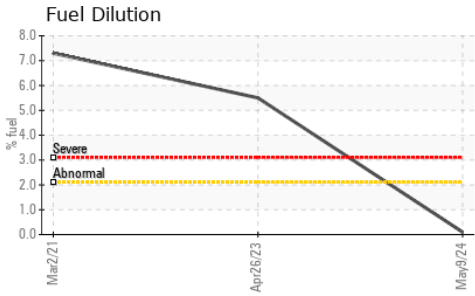
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	18	13	▲ 62
Potassium	ppm	ASTM D5185m	>20	2	<1	13
Fuel	%	ASTM D3524	>2.1	0.1	▲ 5.5	▲ 7.3
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.3	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	17.3	20.7
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	2	3	17
Boron	ppm	ASTM D5185m		291	287	258
Barium	ppm	ASTM D5185m		<1	0	4
Molybdenum	ppm	ASTM D5185m		240	228	237
Manganese	ppm	ASTM D5185m		0	1	3
Magnesium	ppm	ASTM D5185m		741	773	772
Calcium	ppm	ASTM D5185m		1319	1366	2272
Phosphorus	ppm	ASTM D5185m		830	814	1138
Zinc	ppm	ASTM D5185m		988	1006	1168
Sulfur	ppm	ASTM D5185m		2931	3174	4931
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.9	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.7	8.5	10
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	▲ 12.0	▲ 9.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210846 **Received** : 14 May 2024
Lab Number : 06178572 **Tested** : 16 May 2024
Unique Number : 11029898 **Diagnosed** : 16 May 2024 - Wes Davis
Test Package : CONST (Additional Tests: PercentFuel, 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)