



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W21758-SMITH]

Machine Id
JOHN DEERE 3032E 1LV3032EJLM136045

Component
Diesel Engine

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0210840	JR0148841	JR0082062
Sample Date		Client Info		15 Apr 2024	07 Dec 2022	24 Nov 2021
Machine Age	hrs	Client Info		130	106	70
Oil Age	hrs	Client Info		130	36	70
Filter Age	hrs	Client Info		130	36	70
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	3	5	15
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	4	3	4
Lead	ppm	ASTM D5185m	>26	0	2	1
Copper	ppm	ASTM D5185m	>26	1	2	15
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

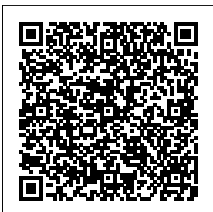
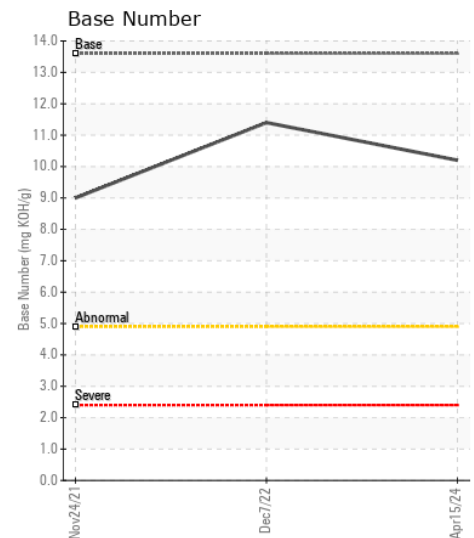
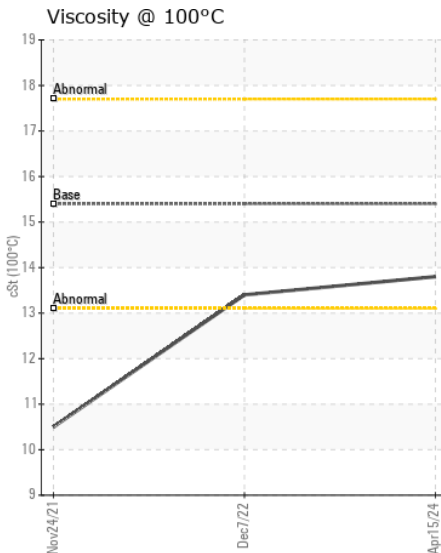
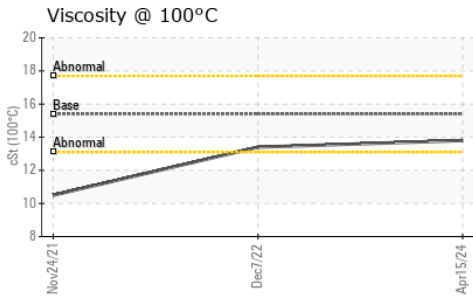
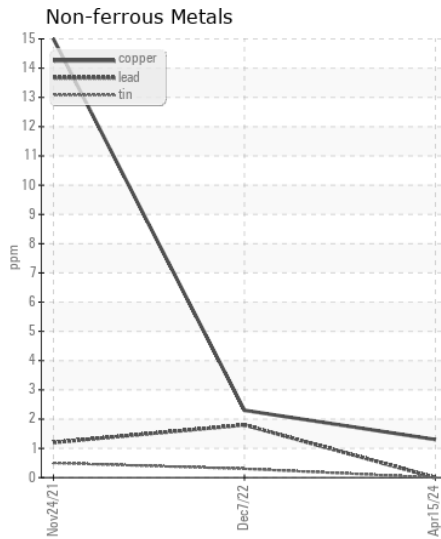
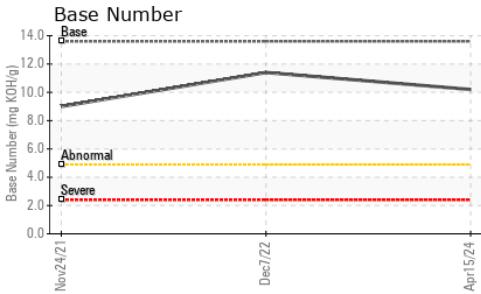
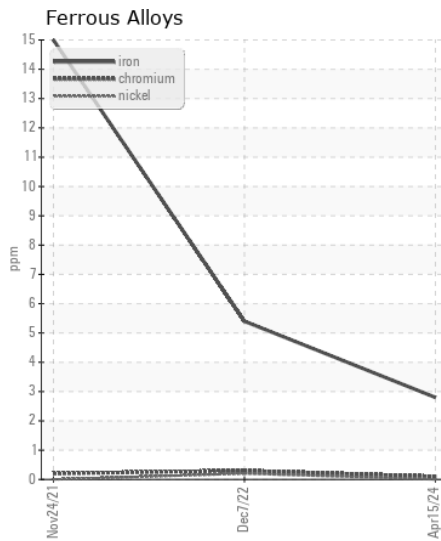
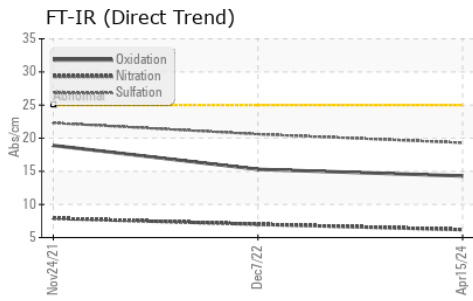
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	12	61
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Fuel		WC Method	>2.1	<1.0	1.1	▲ 2.9
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.2	7.0	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.6	22.3
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	<1	2	10
Boron	ppm	ASTM D5185m		281	237	206
Barium	ppm	ASTM D5185m		0	0	7
Molybdenum	ppm	ASTM D5185m		243	250	210
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		821	811	628
Calcium	ppm	ASTM D5185m		1385	1443	1892
Phosphorus	ppm	ASTM D5185m		884	863	924
Zinc	ppm	ASTM D5185m		1048	1132	1001
Sulfur	ppm	ASTM D5185m		3357	3590	2846
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	15.3	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.2	11.4	9
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.4	▲ 10.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210840 **Received** : 23 Apr 2024
Lab Number : 06158346 **Tested** : 24 Apr 2024
Unique Number : 10993769 **Diagnosed** : 24 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

JRE - BURKEVILLE
 510 WEST COLONIAL DR
 BURKEVILLE, VA
 US 23922

Contact: DAVID SKINNER
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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)

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