



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**[W20878-WOMACK]**

Machine Id

**JOHN DEERE 5075E 1PY5075EVJJ103817**

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		<b>JR0204486</b>	JR0120722	JR0120689
Sample Date		Client Info		<b>24 Jan 2024</b>	16 Jan 2023	10 Feb 2022
Machine Age	hrs	Client Info		<b>533</b>	400	255
Oil Age	hrs	Client Info		<b>100</b>	0	0
Filter Age	hrs	Client Info		<b>100</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	<b>9</b>	16	23
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>5</b>	3	4
Lead	ppm	ASTM D5185m	>26	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>26	<b>1</b>	2	4
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

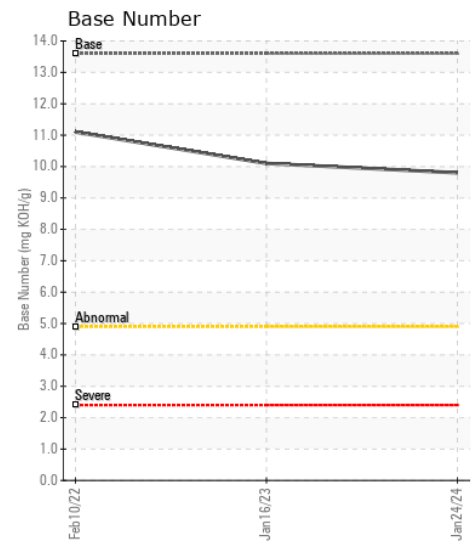
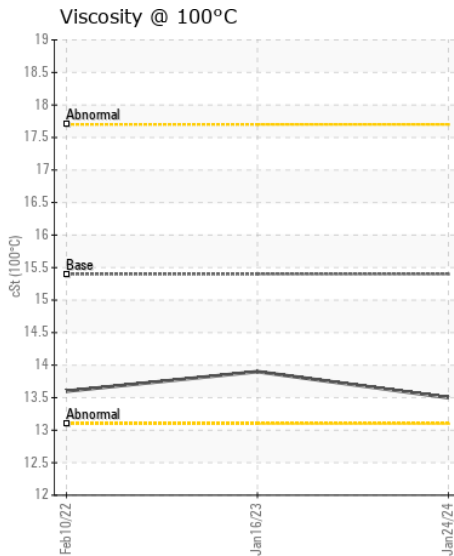
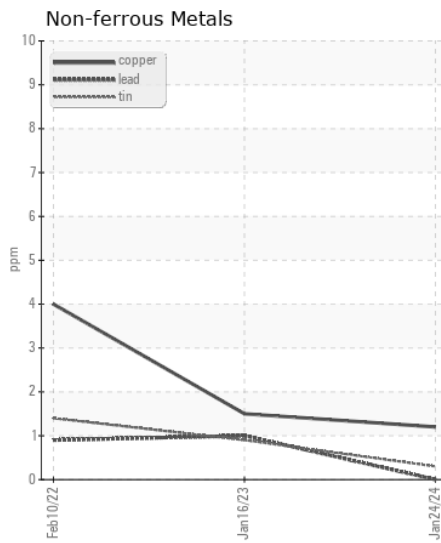
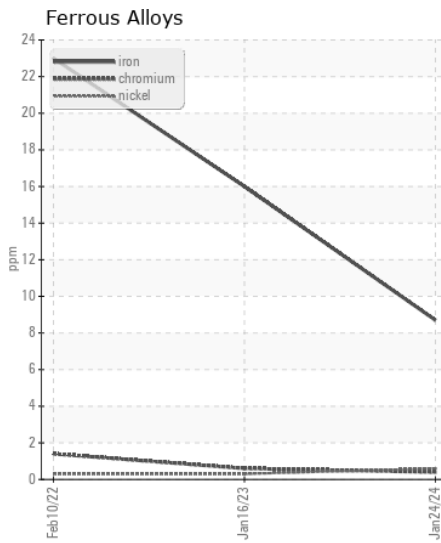
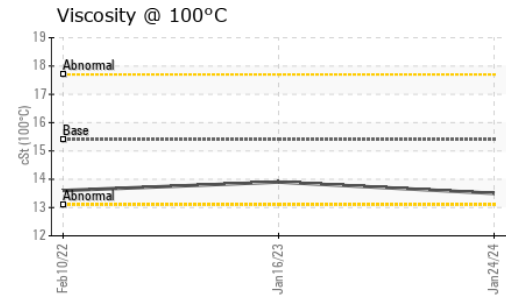
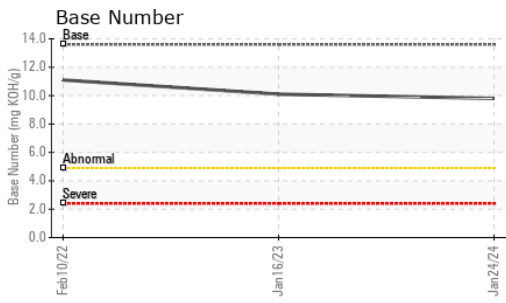
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>7</b>	7	8
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	3
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.3</b>	7.7	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.1</b>	20.4	22.6
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	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	<b>0</b>	2	3
Boron	ppm	ASTM D5185m		<b>309</b>	289	317
Barium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Molybdenum	ppm	ASTM D5185m		<b>299</b>	252	272
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>919</b>	840	877
Calcium	ppm	ASTM D5185m		<b>1520</b>	1381	1512
Phosphorus	ppm	ASTM D5185m		<b>1023</b>	879	989
Zinc	ppm	ASTM D5185m		<b>1202</b>	1072	1069
Sulfur	ppm	ASTM D5185m		<b>3686</b>	3540	2579
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.4</b>	15.8	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.8</b>	10.1	11.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.5</b>	13.9	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0204486 **Received** : 01 Feb 2024  
**Lab Number** : 06077559 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10859650 **Diagnostician** : 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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