



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

Machine Id  
**KLEEMANN KT80-2 Y1840001**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2 GAL)**

### RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0208820</b>	JR0208999	JR0214258
Sample Date		Client Info		<b>26 Jun 2024</b>	24 Apr 2024	24 Apr 2024
Machine Age	hrs	Client Info		<b>7465</b>	6496	5994
Oil Age	hrs	Client Info		<b>969</b>	500	500
Filter Age	hrs	Client Info		<b>969</b>	500	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	SEVERE	SEVERE

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>11</b>	17	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	5	5
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>3</b>	1	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

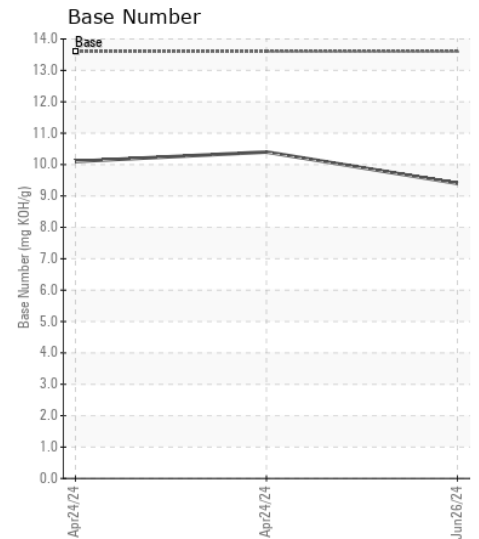
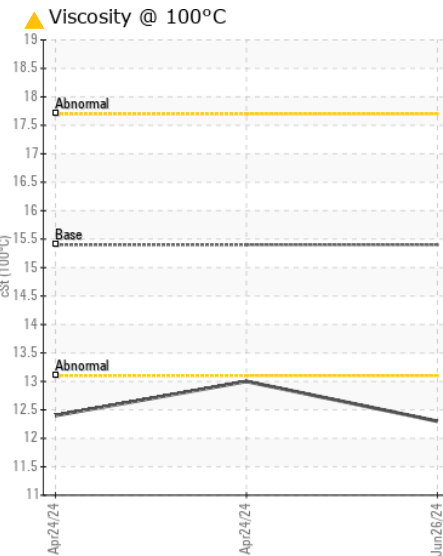
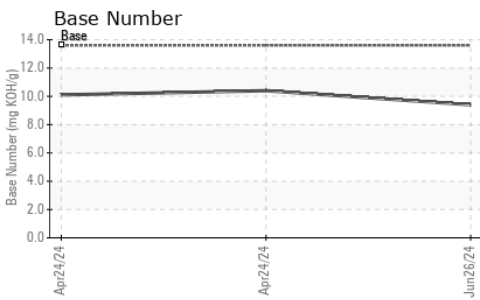
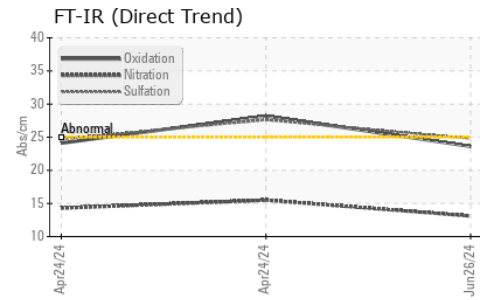
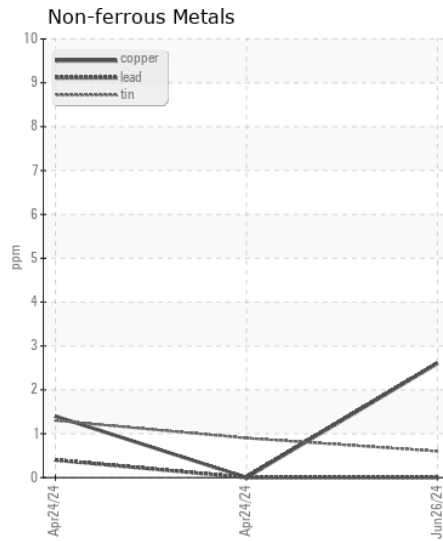
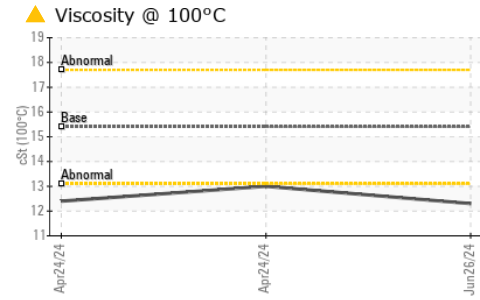
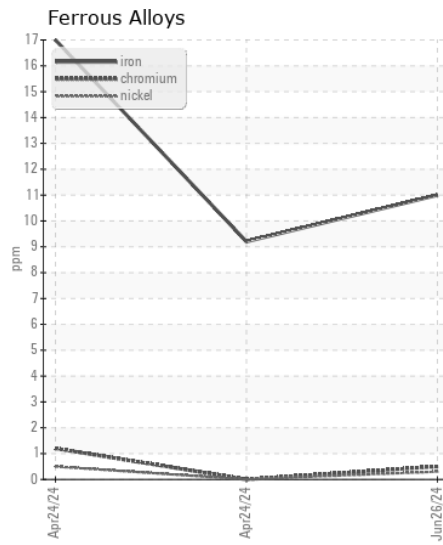
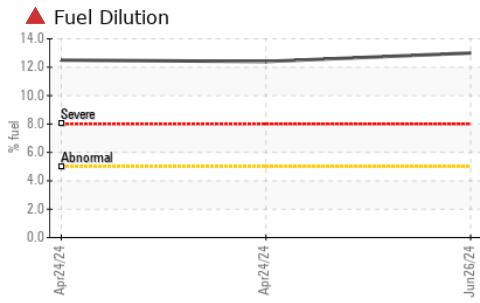
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	11	11
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	0
Fuel	%	ASTM D3524	>5	<b>▲ 13.0</b>	▲ 12.4	▲ 12.5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	1.9	1.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.1</b>	15.5	14.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.8</b>	27.6	24.7
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	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>5</b>	<1	0
Boron	ppm	ASTM D5185m		<b>176</b>	202	198
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	2	<1
Molybdenum	ppm	ASTM D5185m		<b>229</b>	222	211
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>756</b>	701	729
Calcium	ppm	ASTM D5185m		<b>1266</b>	1217	1261
Phosphorus	ppm	ASTM D5185m		<b>796</b>	736	803
Zinc	ppm	ASTM D5185m		<b>979</b>	906	950
Sulfur	ppm	ASTM D5185m		<b>3090</b>	2837	2914
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.6</b>	28.2	24.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.4</b>	10.4	10.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>▲ 12.3</b>	▲ 13.0	▲ 12.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0208820

Lab Number : 06222032

Unique Number : 11100229

Test Package : CONST ( Additional Tests: PercentFuel, TBN )

Received : 27 Jun 2024

Tested : 01 Jul 2024

Diagnosed : 01 Jul 2024 - Wes Davis

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)

**JRE - NEW BERN**  
3816 MARTIN LUTHER KING BLVD  
NEW BERN, NC  
US 28562

Contact: NEW BERN SHOP

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