



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE 8250R 8250R UNIT 2 (S/N 187152)**

Component  
**Hydraulic System**

Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PE0003791</b>	PE0002519	PE0002526
Sample Date		Client Info		<b>08 Feb 2024</b>	20 Dec 2023	15 Nov 2023
Machine Age	hrs	Client Info		<b>4649</b>	4221	3936
Oil Age	hrs	Client Info		<b>4221</b>	3936	3575
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>14</b>	14	14
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	4	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185m	>75	<b>6</b>	11	8
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

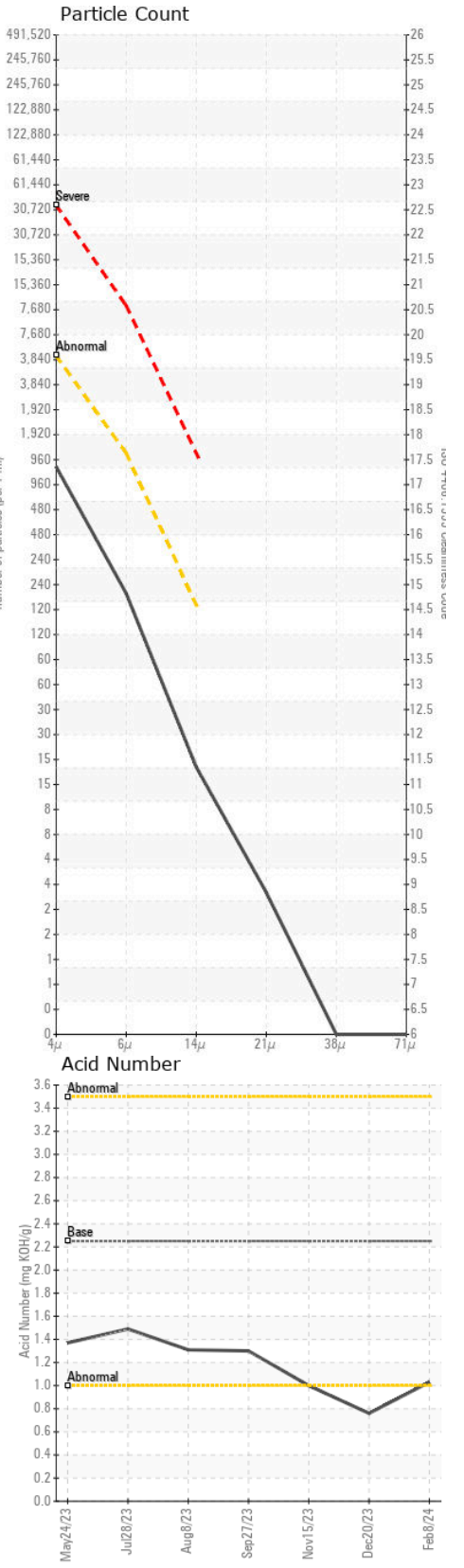
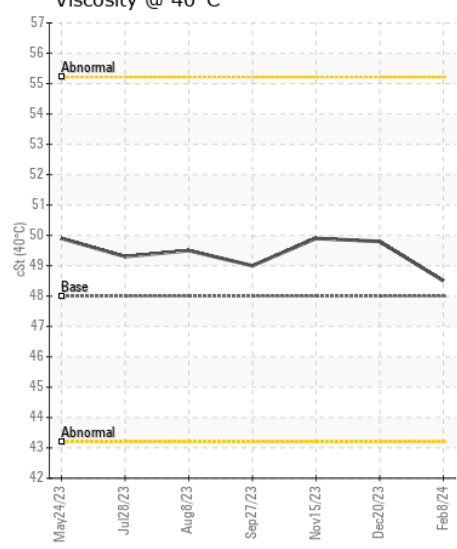
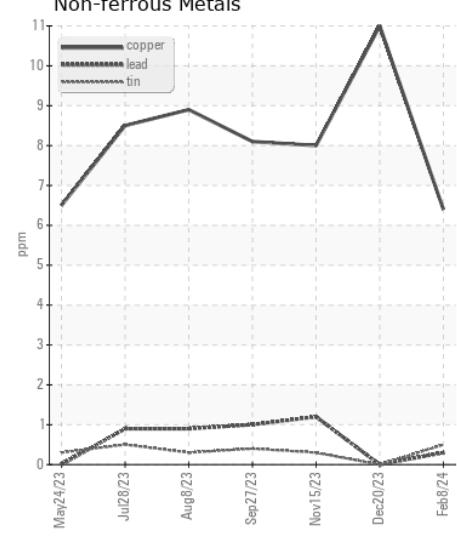
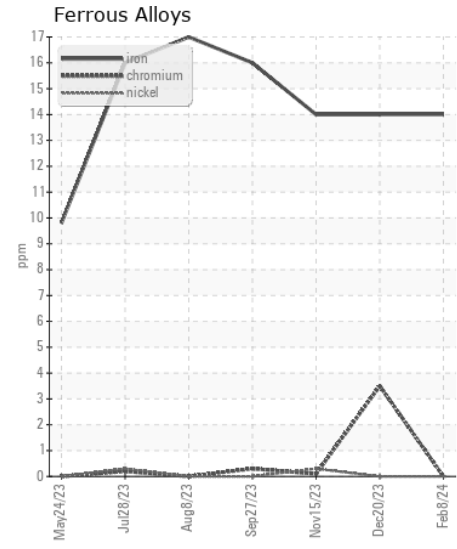
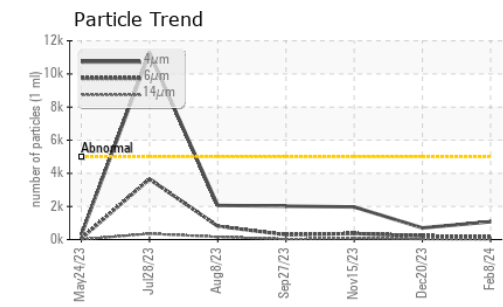
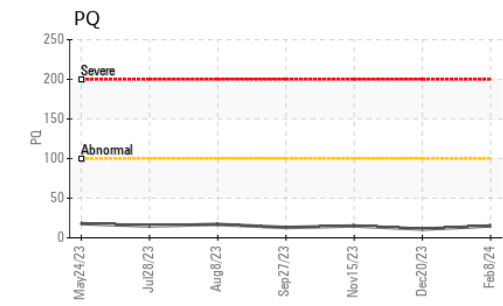
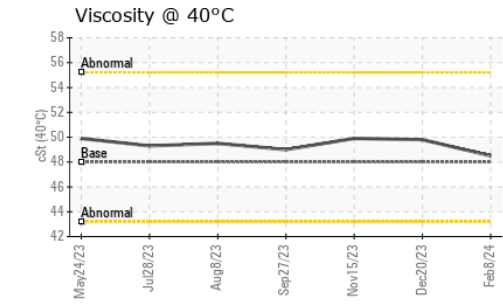
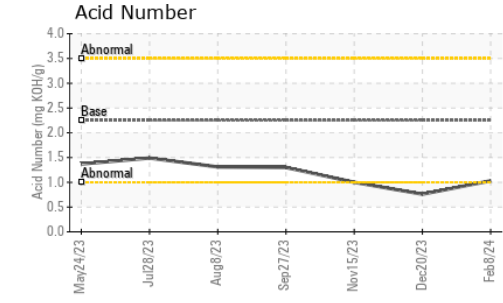
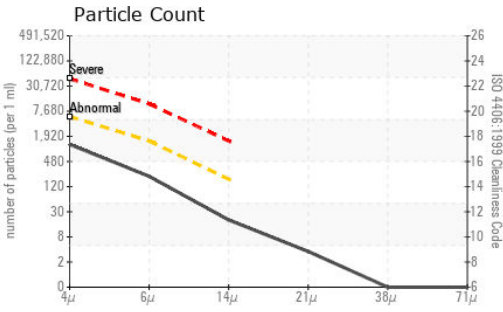
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>1079</b>	705	1969
Particles >6µm		ASTM D7647	>1300	<b>187</b>	217	367
Particles >14µm		ASTM D7647	>160	<b>17</b>	28	63
Particles >21µm		ASTM D7647	>40	<b>3</b>	8	23
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/15/11</b>	17/15/12	18/16/13
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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Boron	ppm	ASTM D5185m	10	<b>4</b>	<1	3
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	10
Molybdenum	ppm	ASTM D5185m	10	<b>0</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	100	<b>53</b>	38	53
Calcium	ppm	ASTM D5185m	3500	<b>2748</b>	1507	2903
Phosphorus	ppm	ASTM D5185m	1150	<b>966</b>	791	970
Zinc	ppm	ASTM D5185m	1150	<b>1169</b>	1018	1142
Sulfur	ppm	ASTM D5185m	5000	<b>3370</b>	2599	3439
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	<b>1.03</b>	0.76	1.00
Visc @ 40°C	cSt	ASTM D445	48	<b>48.5</b>	49.8	49.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0003791 **Received** : 14 Feb 2024  
**Lab Number** : 06088670 **Tested** : 15 Feb 2024  
**Unique Number** : 10876115 **Diagnosed** : 15 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN )  
 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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