



OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 624L 624L UNIT 6**

Component  
**Hydraulic System**

Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PE0003786</b>	PE0002516	PE0002489
Sample Date		Client Info		<b>08 Feb 2024</b>	20 Dec 2023	27 Sep 2023
Machine Age	hrs	Client Info		<b>6725</b>	6299	5992
Oil Age	hrs	Client Info		<b>6299</b>	5992	5244
Filter Age	hrs	Client Info		<b>5459</b>	5459	5459
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>	ATTENTION	NORMAL

**WEAR**

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>4</b>	17	6
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	<1	5
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	3
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>0</b>	10	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
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**

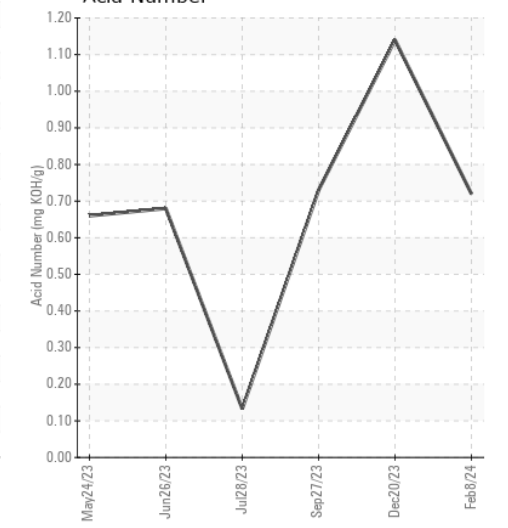
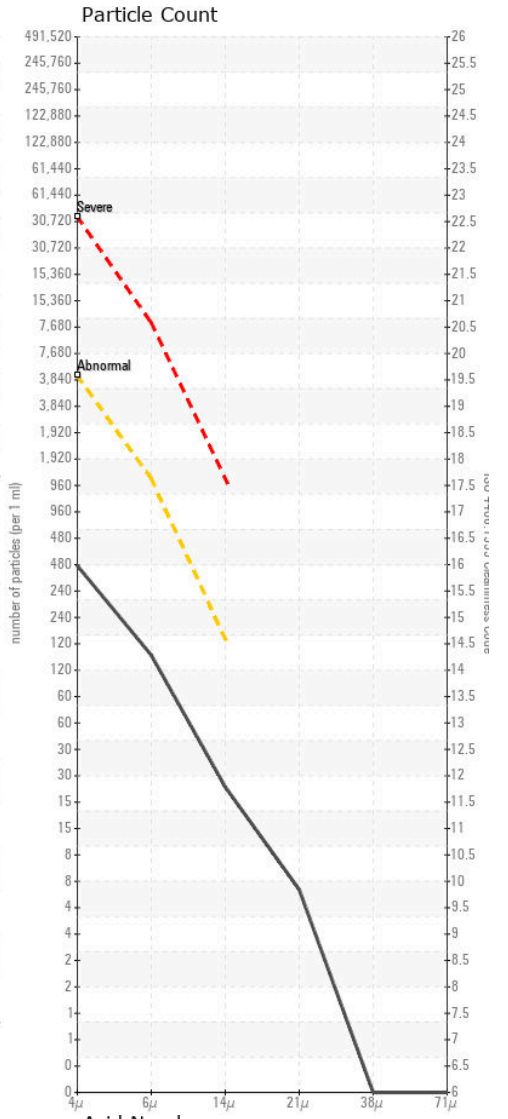
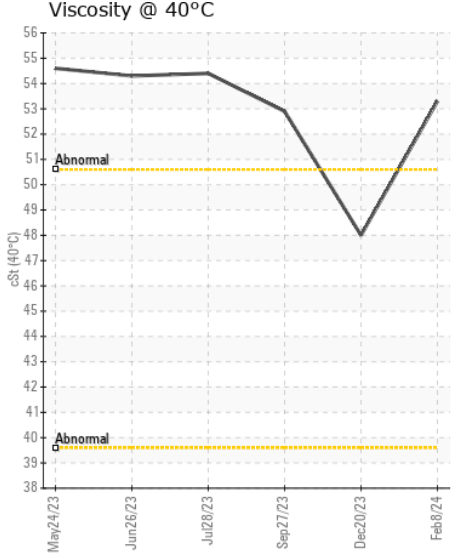
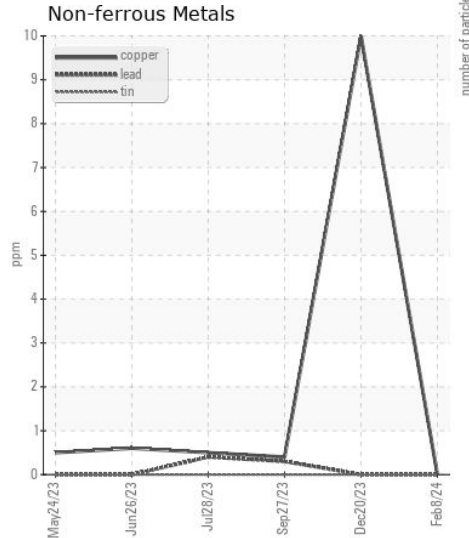
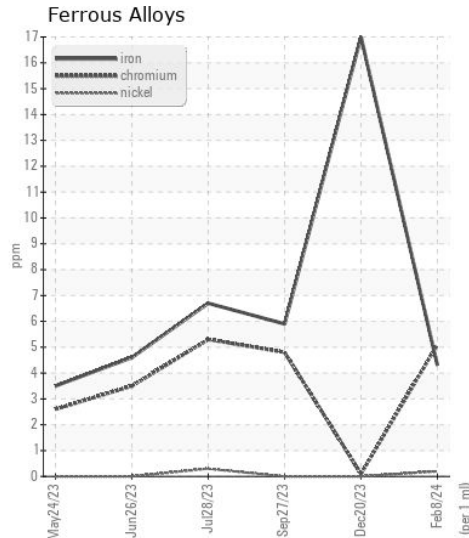
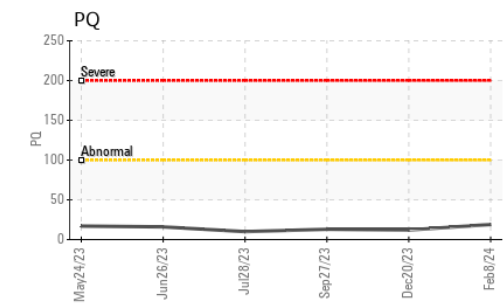
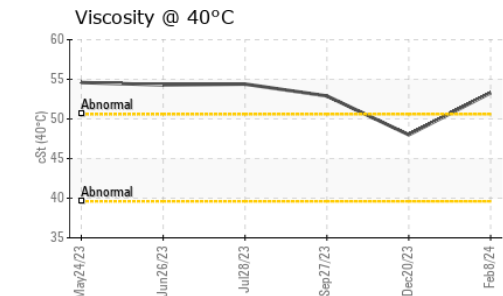
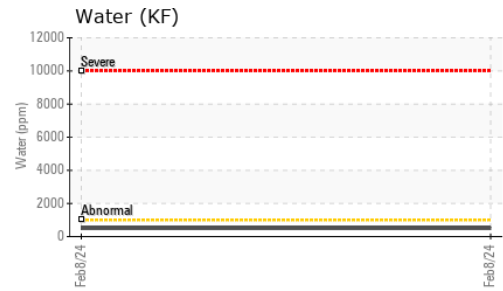
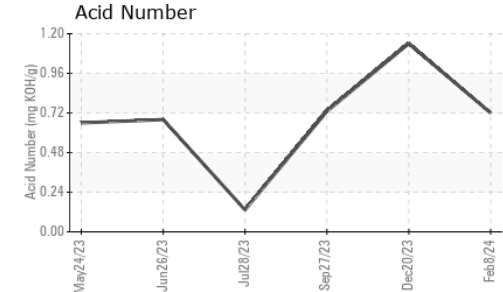
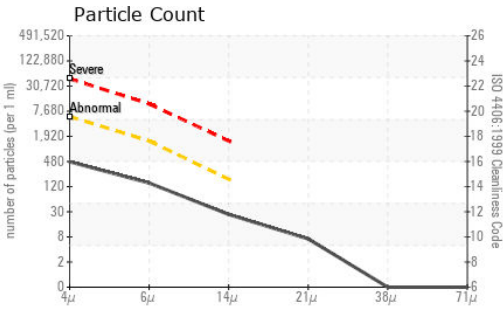
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	4	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	<1
Water	%	ASTM D6304	>0.1	<b>0.050</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	<b>500</b>	---	---
Particles >4µm		ASTM D7647	>5000	<b>416</b>	▲ 7041	576
Particles >6µm		ASTM D7647	>1300	<b>129</b>	743	174
Particles >14µm		ASTM D7647	>160	<b>23</b>	15	22
Particles >21µm		ASTM D7647	>40	<b>6</b>	3	6
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>16/14/12</b>	▲ 20/17/11	16/15/12
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>0.2%</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>0</b>	0	<1
Boron	ppm	ASTM D5185m		<b>0</b>	3	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>5</b>	60	6
Calcium	ppm	ASTM D5185m		<b>542</b>	2988	433
Phosphorus	ppm	ASTM D5185m		<b>703</b>	918	669
Zinc	ppm	ASTM D5185m		<b>892</b>	1189	870
Sulfur	ppm	ASTM D5185m		<b>1994</b>	3661	2052
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.72</b>	1.14	0.73
Visc @ 40°C	cSt	ASTM D445		<b>53.3</b>	48.0	52.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0003786  
**Lab Number** : 06088672  
**Unique Number** : 10876117  
**Test Package** : CONST ( Additional Tests: ICP, KF, KV40, PQ, PrtCount, SCREEN )

**Received** : 14 Feb 2024  
**Tested** : 15 Feb 2024  
**Diagnosed** : 15 Feb 2024 - Jonathan Hester

**MORNING STAR DAIRY**  
 801 FM 694  
 DALHART, TX  
 US 79022  
 Contact: JOHN DEVRIES  
 johndevries@gmail.com

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)