



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

Machine Id  
**JOHN DEERE DZR-33**

Component  
**Hydraulic System**

Fluid  
**Hydraulic System Oil (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CL0005597</b>	CL0005143	CL0004590
Sample Date		Client Info		<b>30 Jun 2024</b>	10 Feb 2024	14 Aug 2023
Machine Age	hrs	Client Info		<b>1975</b>	1515	1020
Oil Age	hrs	Client Info		<b>1975</b>	1515	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>5</b>	4	4
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	1	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	2	<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**

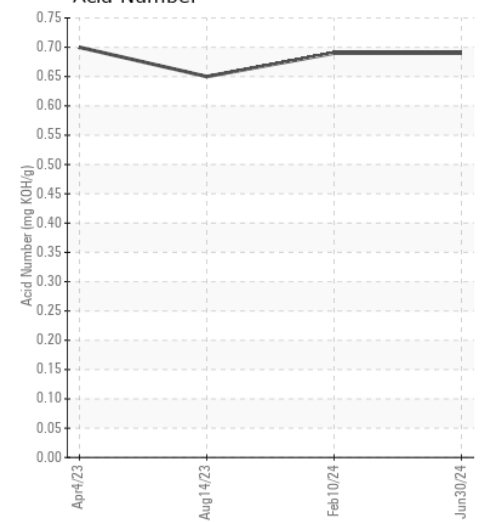
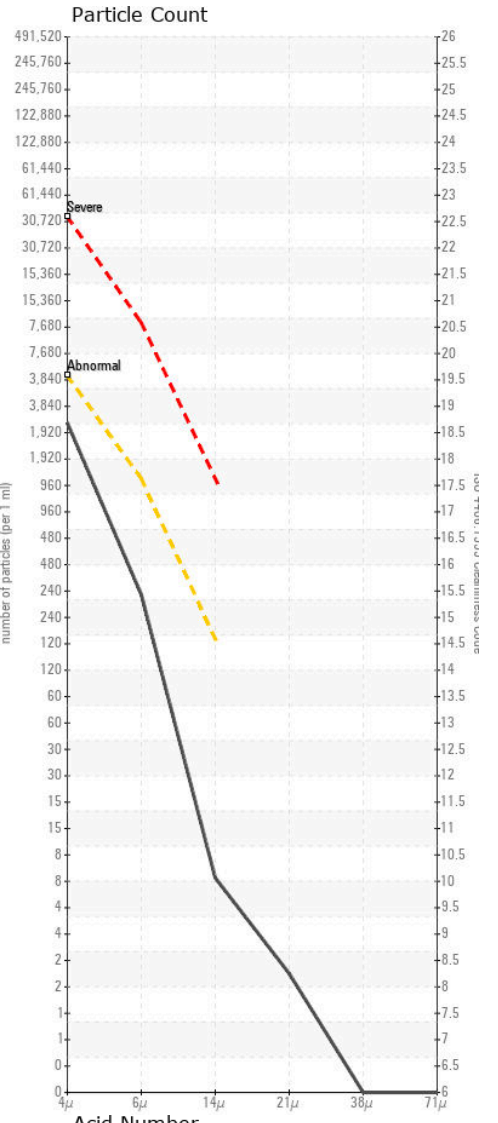
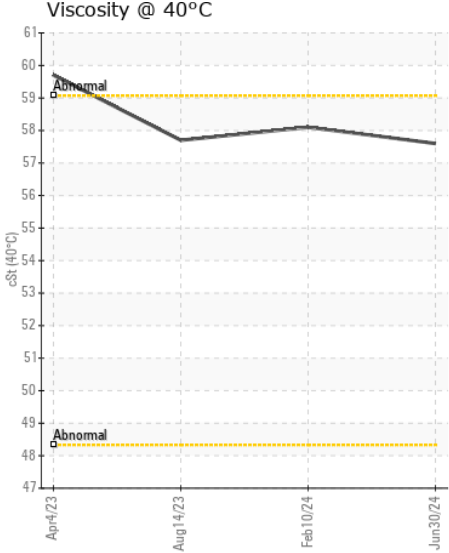
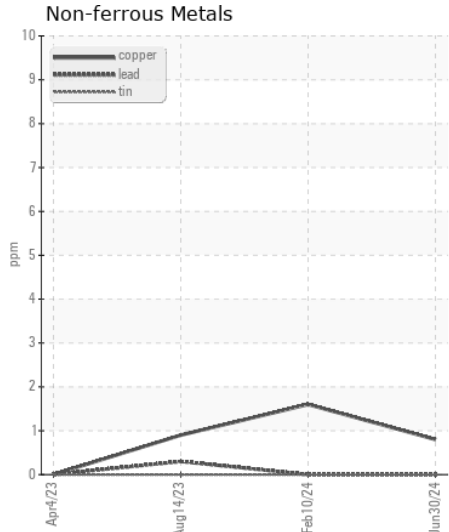
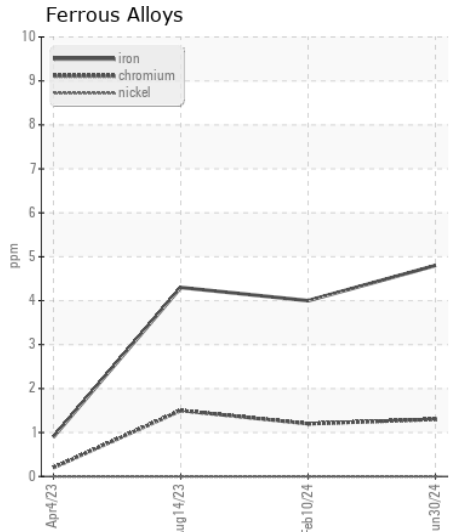
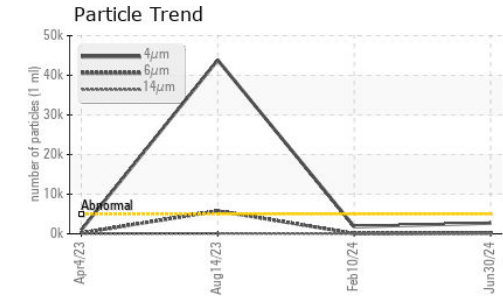
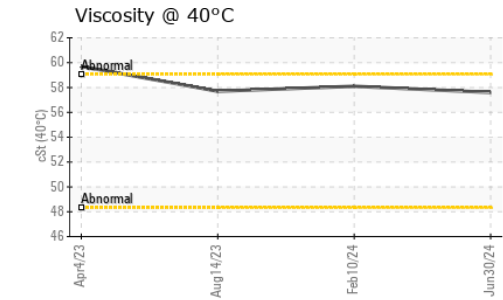
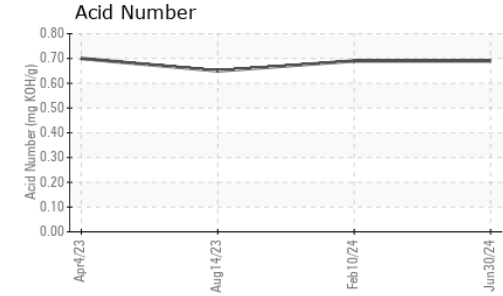
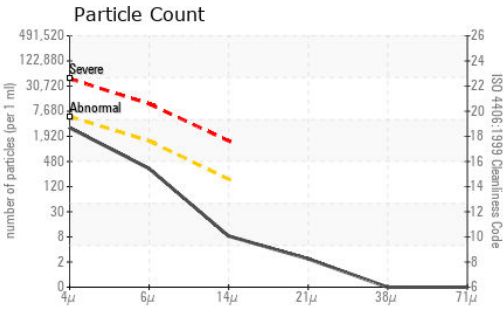
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	2	3
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>2702</b>	1808	▲ 43847
Particles >6µm		ASTM D7647	>1300	<b>285</b>	82	▲ 5784
Particles >14µm		ASTM D7647	>160	<b>7</b>	5	77
Particles >21µm		ASTM D7647	>40	<b>2</b>	1	10
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>19/15/10</b>	18/14/10	▲ 23/20/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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>2</b>	2	2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>2</b>	0	<1
Calcium	ppm	ASTM D5185m		<b>96</b>	85	104
Phosphorus	ppm	ASTM D5185m		<b>670</b>	643	711
Zinc	ppm	ASTM D5185m		<b>855</b>	800	979
Sulfur	ppm	ASTM D5185m		<b>1893</b>	1592	2132
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.69</b>	0.69	0.65
Visc @ 40°C	cSt	ASTM D445		<b>57.6</b>	58.1	57.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : CL0005597 **Received** : 08 Jul 2024  
**Lab Number** : 06230113 **Tested** : 09 Jul 2024  
**Unique Number** : 11113606 **Diagnosed** : 09 Jul 2024 - Don Baldrige  
**Test Package** : CONST

**PEDULLA**  
 146 MCLELLAND  
 MOORESVILLE, NC  
 US 28115  
 Contact: LARRY

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)