

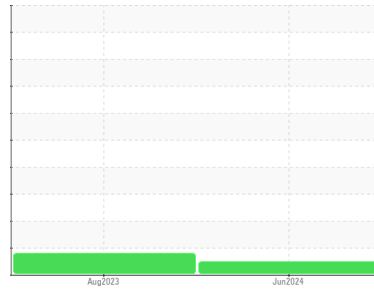


OIL ANALYSIS REPORT



Area
RONI
 Machine Id
359
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0920725	LH0275209	---
Sample Date	Client Info		29 Jun 2024	26 Aug 2023	---
Machine Age	hrs	Client Info	0	12093	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			NORMAL	ATTENTION	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.075	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>23	6	20	---
Chromium	ppm	ASTM D5185(m)	>9	2	7	---
Nickel	ppm	ASTM D5185(m)	>5	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>9	1	2	---
Lead	ppm	ASTM D5185(m)	>28	0	<1	---
Copper	ppm	ASTM D5185(m)	>51	1	6	---
Tin	ppm	ASTM D5185(m)	>5	0	<1	---
Antimony	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<1	2	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		0	1	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		1	6	---
Calcium	ppm	ASTM D5185(m)	87	76	98	---
Phosphorus	ppm	ASTM D5185(m)	727	474	603	---
Zinc	ppm	ASTM D5185(m)	900	606	718	---
Sulfur	ppm	ASTM D5185(m)	1500	1062	1335	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

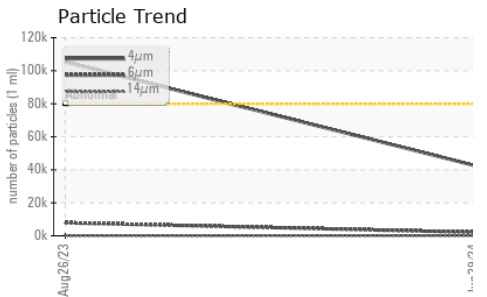
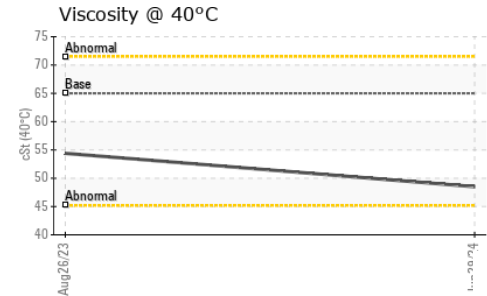
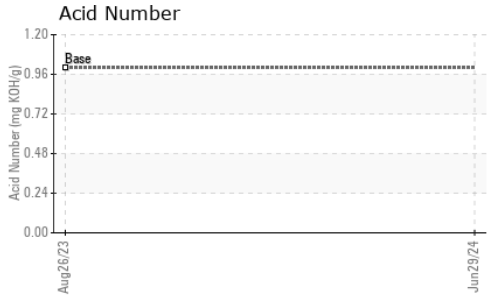
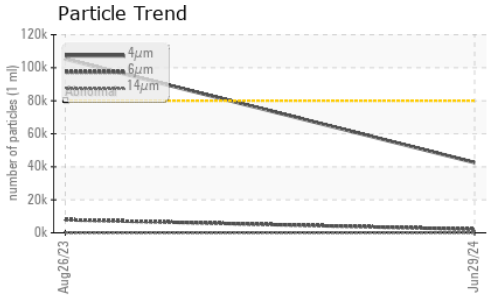
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>31	1	8	---
Sodium	ppm	ASTM D5185(m)	>21	0	1	---
Potassium	ppm	ASTM D5185(m)	>20	0	1	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	42558	● 105231	---
Particles >6µm	ASTM D7647	>20000	2117	7903	---
Particles >14µm	ASTM D7647	>640	63	12	---
Particles >21µm	ASTM D7647	>160	15	5	---
Particles >38µm	ASTM D7647	>40	3	0	---
Particles >71µm	ASTM D7647	>10	2	0	---
Oil Cleanliness	ISO 4406 (c)	>23/21/16	23/18/13	● 24/20/11	---



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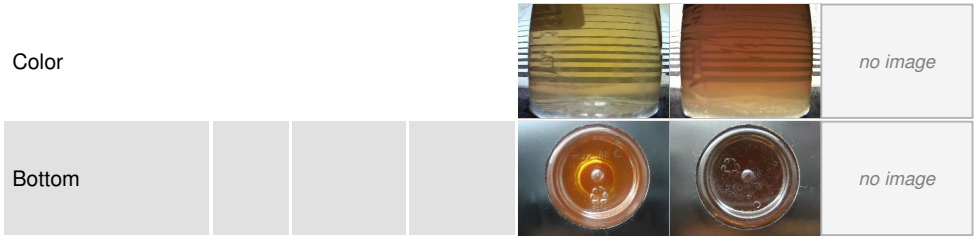


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	0.61	---	---

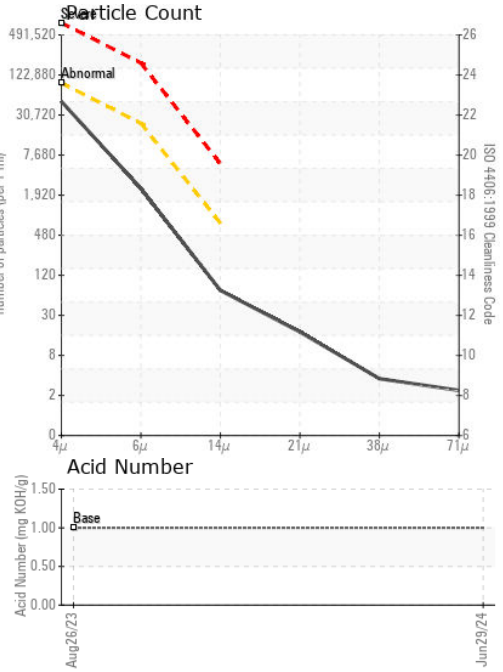
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.075	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	65	48.5	54.4	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**
Sample No. : WC0920725 **Received** : 10 Jul 2024 **100 MACINTOSH BLVD**
Lab Number : **02647051** **Tested** : 11 Jul 2024 **VAUGHAN, ON**
Unique Number : 5812603 **Diagnosed** : 12 Jul 2024 - Kevin Marson **CA L4K 4P3**
Test Package : MOBCE **Contact:** Service Team **service.team@roni.ca**

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.