

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id L-441 Component **Hydraulic System** 

**JOHN DEERE HYDRAU (--- GAL)** 

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

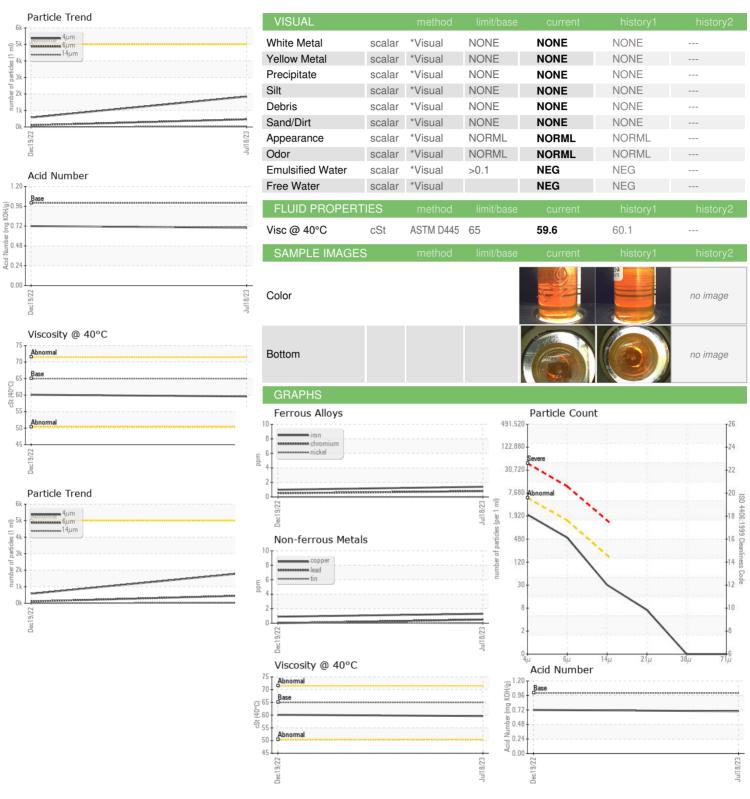
### **Fluid Condition**

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

			Dec2022	Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828528	WC0703773	
Sample Date		Client Info		18 Jul 2023	19 Dec 2022	
Machine Age	hrs	Client Info		1121	540	
Oil Age	hrs	Client Info		1121	540	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	1	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m	7.0	0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm		>10	1	<1	
Lead		ASTM D5185m	>10	<1	0	
	ppm	ASTM D5185m		1		
Copper	ppm				<1	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		<1	<1	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		1	2	
Calcium	ppm	ASTM D5185m	87	97	102	
Phosphorus	ppm	ASTM D5185m	727	646	674	
Zinc	ppm	ASTM D5185m	900	877	875	
Sulfur	ppm	ASTM D5185m	1500	1864	2023	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	<1	
Sodium	ppm	ASTM D5185m		0	3	
Potassium	ppm	ASTM D5185m	>20	3	3	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1841	575	
Particles >6µm		ASTM D7647		461	108	
Particles >14µm		ASTM D7647	>160	27	9	
Particles >21µm		ASTM D7647		6	3	
Particles >38µm		ASTM D7647	>10	0	1	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	16/14/10	
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.70	0.72	
ACIO INUITIDEI (AIN)	iliy NOH/ÿ	A3 1 W D0043	1.0	0.70	0.72	



## **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0828528 : 05902237 : 10563593 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician

: 19 Jul 2023 : 20 Jul 2023 : Wes Davis

**DUKE LAZZARA** 4201 FAYETTEVILLE RD RALEIGH, NC US 27603

Contact: NICK DIXON

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. NICK.DIXON@DUKELAZZAM.COM T: (919)760-7797

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: NICK DIXON - DUKRAL

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