WEAR CONTAMINATION FLUID CONDITION

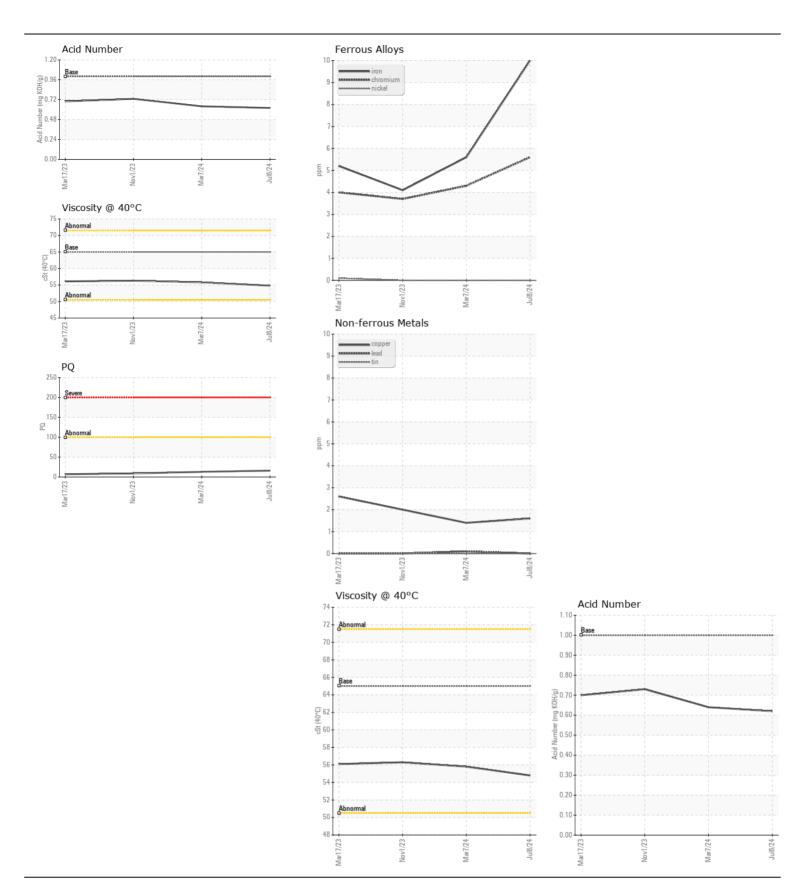
NORMAL ABNORMAL NORMAL

[BILLY MCCORMICK]

JOHN DEERE 948L-II 711568

Hydraulic System

JOHN DEERE HYDRAU (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0222063	JR0164655	JR0165007
We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Date		Client Info		08 Jul 2024	07 Mar 2024	01 Nov 2023
	Machine Age	hrs	Client Info		4177	3641	3145
	Oil Age	hrs	Client Info		0	0	3145
	Filter Age	hrs	Client Info		0	0	3145
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR	PQ		ASTM D8184		16	13	9
	Iron	ppm	ASTM D5185m	>20	10	6	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	6	4	4
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	<1	2	0
	Lead	ppm	ASTM D5185m	>10	0	<1	0
	Copper	ppm	ASTM D5185m		2	1	2
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4	3	3
	Potassium	ppm	ASTM D5185m	>20	2	3	0
Moderate concentration of visible dirt/debris present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000		▲ 16733	7882
	Particles >6µm		ASTM D7647	>1300		<u></u> 4760	1779
	Particles >14μm		ASTM D7647	>160		<u>453</u>	97
	Particles >21μm		ASTM D7647	>40		<u> </u>	18
	Particles >38μm		ASTM D7647	>10		9	0
	Particles >71μm		ASTM D7647			0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14		<u>^</u> 21/19/16	20/18/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	<1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		1	2	0
	Calcium	ppm	ASTM D5185m		86	93	95
	Phosphorus	ppm	ASTM D5185m		620	603	619
	Zinc	ppm		900	765	780	820
	Sulfur	ppm	ASTM D5185m	1500	1897	1596	1634
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.62	0.64	0.73
	Visc @ 40°C	cSt	ASTM D445	65	54.8	55.8	56.3







Laboratory Sample No. Unique Number : 11127880

Lab Number : 06239046

: JR0222063

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

: 17 Jul 2024 Tested : 18 Jul 2024 : 18 Jul 2024 - Don Baldridge Diagnosed

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP

Test Package : CONST (Additional Tests: PQ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

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* - 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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