

[05W46990] JOHN DEERE 000748 Component Hydraulic System

JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (55 GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

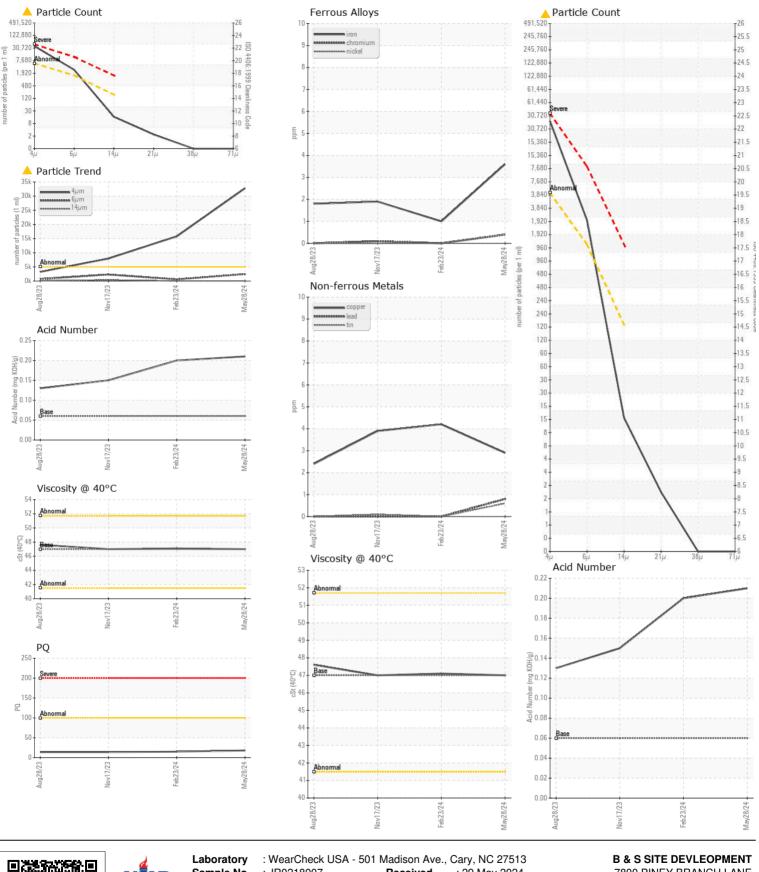
CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218007	JR0203128	JR0192432
Sample Date		Client Info		28 May 2024	23 Feb 2024	17 Nov 2023
Machine Age	hrs	Client Info		1983	1490	967
Oil Age	hrs	Client Info		1983	1490	967
Filter Age	hrs	Client Info		1000	523	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
D O				40	4 5	14
PQ Iron	000	ASTM D8184 ASTM D5185m	>20	18 4	15 1	2
Chromium	ppm		>20 >10	4 <1	0	<1
Nickel	ppm	ASTM D5185m		<1 <1	0	< 1
Titanium	ppm	ASTM D5185m ASTM D5185m	>10		0	0
	ppm			<1		
Silver Aluminum	ppm	ASTM D5185m ASTM D5185m	>10	1	0	0
Aluminum	ppm	ASTM D5185m ASTM D5185m	>10	1 <1	0	0
	ppm		>10	3	4	4
Copper Tin	ppm	ASTM D5185m		3 <1	4	4
Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>10	<1 <1	0	<1
White Metal	ppm scalar	*Visual	NONE	<1 NONE	NONE	< I NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Scaidi	visual	NONE		INCINE	INCINE
Silicon	ppm	ASTM D5185m	>20	2	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	A 32743	1 5769	7952
Particles >6µm		ASTM D7647	>1300	2452	575	2294
Particles >14µm		ASTM D7647	>160	14	5	3 70
Particles >21µm		ASTM D7647	>40	2	2	9 4
Particles >38µm		ASTM D7647	>10	0	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u> </u>	▲ 20/18/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	nnm	ASTM D5185m		0	2	<1
Boron	ppm ppm	ASTM D5185m		0	0	0
Barium		ASTM D5185m		0	0	0
Molybdenum	ppm ppm	ASTM D5185m		0 <1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		11	20	29
Phosphorus	ppm	ASTM D5185m		502	497	522
Zinc	ppm	ASTM D5185m		26	26	44
Sulfur	ppm	ASTM D5185m		63	110	79
Acid Number (AN)	mg KOH/g	ASTM D5105III ASTM D8045	0.06	0.21	0.20	0.15
Visc @ 40°C	cSt	ASTM D8045 ASTM D445	47	47.0	47.1	47.0
130 @ 40 0	001	A0 INI D440	-+ /	47.0	······	47.0



Sample No. 7800 PINEY BRANCH LANE : JR0218007 Received : 29 May 2024 Lab Number BRISTOW, VA : 06194602 Tested : 31 May 2024 : 31 May 2024 - Don Baldridge US 20136 Unique Number : 11056725 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DANNY HUFF Certificate L2367 dhuff@bandssite.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. T: (540)270-3203 F: (703)753-0605

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

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