

OIL ANALYSIS REPORT

Area [W51627] JOHN DEERE 843L 1DW843LBKNF713482

Hydraulic System

JOHN DEERE HYDRAU (--- GAL)

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

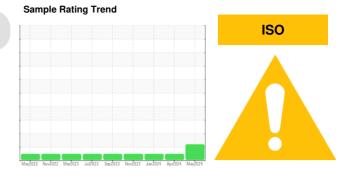
All component wear rates are normal.

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 acceptable for the time in service.



SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179773	JR0200393	JR0165118
Sample Date		Client Info		14 May 2024	10 Apr 2024	03 Jan 2024
Machine Age	nrs	Client Info		4662	4500	4000
Oil Age	nrs	Client Info		4662	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		23	20	11
Iron p	opm	ASTM D5185m	>20	18	<1	1
Chromium p	opm	ASTM D5185m	>10	2	<1	<1
Nickel	opm	ASTM D5185m	>10	<1	0	<1
Titanium	opm	ASTM D5185m		<1	0	<1
Silver	opm	ASTM D5185m		<1	0	0
Aluminum	opm	ASTM D5185m	>10	2	0	2
Lead ß	opm	ASTM D5185m	>10	<1	0	<1
Copper p	opm	ASTM D5185m	>75	7	5	2
Tin ß	opm	ASTM D5185m	>10	<1	0	<1
Vanadium p	opm	ASTM D5185m		<1	0	0
Cadmium F	opm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron ß	opm	ASTM D5185m		0	0	0
Barium p	opm	ASTM D5185m		0	0	11
Molybdenum p	opm	ASTM D5185m		<1	0	<1
Manganese p	opm	ASTM D5185m		<1	<1	0
Magnesium p	opm	ASTM D5185m		1	<1	2
Calcium F	opm	ASTM D5185m	87	38	86	96
Phosphorus	opm	ASTM D5185m	727	475	648	739
Zinc	opm	ASTM D5185m	900	589	837	869
Sulfur ß	opm	ASTM D5185m	1500	1206	1829	1919
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185m	>20	4	2	2
	opm	ASTM D5185m		<1	<1	0
Potassium p	opm	ASTM D5185m	>20	2	2	2
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 31447	466	317
Particles >6µm		ASTM D7647	>1300	<u> </u>	68	77
Particles >14µm		ASTM D7647	>160	57	12	6
Particles >21µm		ASTM D7647	>40	13	5	1
Particles >38µm		ASTM D7647	>10	0	1	0

ASTM D7647 >3

0

ISO 4406 (c) >19/17/14 A 22/19/13

Particles >71µm

Oil Cleanliness

16/13/11

0

15/13/10

0



P

35) 30)

1) 25k sapited to 15k

Jaqune 10k

0k

250

150

50

0 1000

Ac 1.20 (0,0.96 Bu 0.72

> Nov9/22 Alar10/23 Jul11/23

Viscosity @ 40°C

May20/22 Nov9/22 Mar10/23

90.48 90.24 0.00

75

70

B

50 - Abnormal

PQ

(40°C)

š

45

250

150

100

50

12/10/vel

0

2 100 - 6

5k - 6

Um/20/27

Ρ

200 - 8

OIL ANALYSIS REPORT

limit/base

limit/base

1.0

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

>0.1

65

current

current

0.52

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

current

NEG

NEG

47.5

history1

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history1

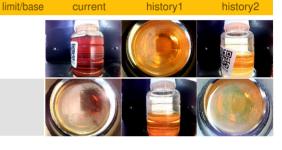
NEG

NEG

56.8

0.59

Part	icle 7	rend							FLUID DEGRADA	TION	method	
	4μ 6μ 14	ιm ιm μm					1		Acid Number (AN)	mg KOH/g	ASTM D8045	
							/		VISUAL		method	
							/		White Metal	scalar	*Visual	
Abnor	mal						/		Yellow Metal	scalar	*Visual	
				-					Precipitate	scalar	*Visual	
4	Nov9/22	0/23	1/23			Jan3/24			Silt	scalar	*Visual	
- Ania	Nov	Mar1 0/23	Jul11/23	Sep20/23	Nov3/23	Jan	Apr10/24 Mav14/24	A I d A	Debris	scalar	*Visual	
									Sand/Dirt	scalar	*Visual	
Q									Appearance	scalar	*Visual	
Severe									Odor	scalar	*Visual	
	-			1		-			Emulsified Water	scalar	*Visual	
									Free Water	scalar	*Visual	
Abnomal									FLUID PROPERTIES		method	
									Visc @ 40°C	cSt	ASTM D445	
adroit a	Nov9/22 -	Mar10/23 -	Jul11/23 -	Sep20/23 -	Nov3/23 -	Jan3/24 -	Apr10/24 - Mav14/24 -	1 1/ T / T	SAMPLE IMAGES		method	
Acid Number								-	Color			



history2

history2

0.70

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

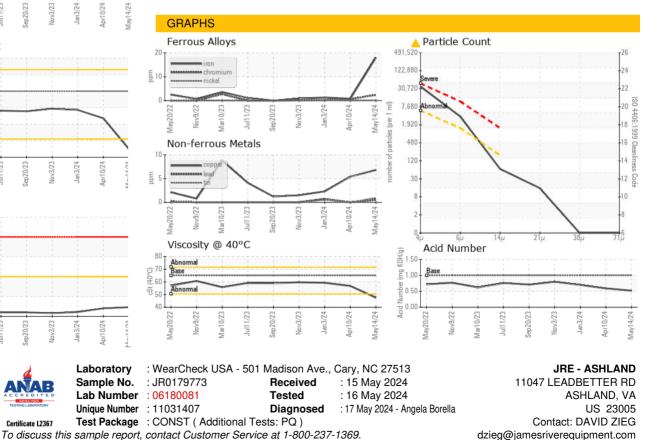
history2

NEG

NEG

59.3

Bottom



* - 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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