

Area

[W54762]

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



RECOMMENDATION

JOHN DEERE 450J 1T0450JXKGD297478

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

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

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NA N		$\boldsymbol{\Lambda}$	~
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Cylinder, crank, or cam shaft wear is indicated.

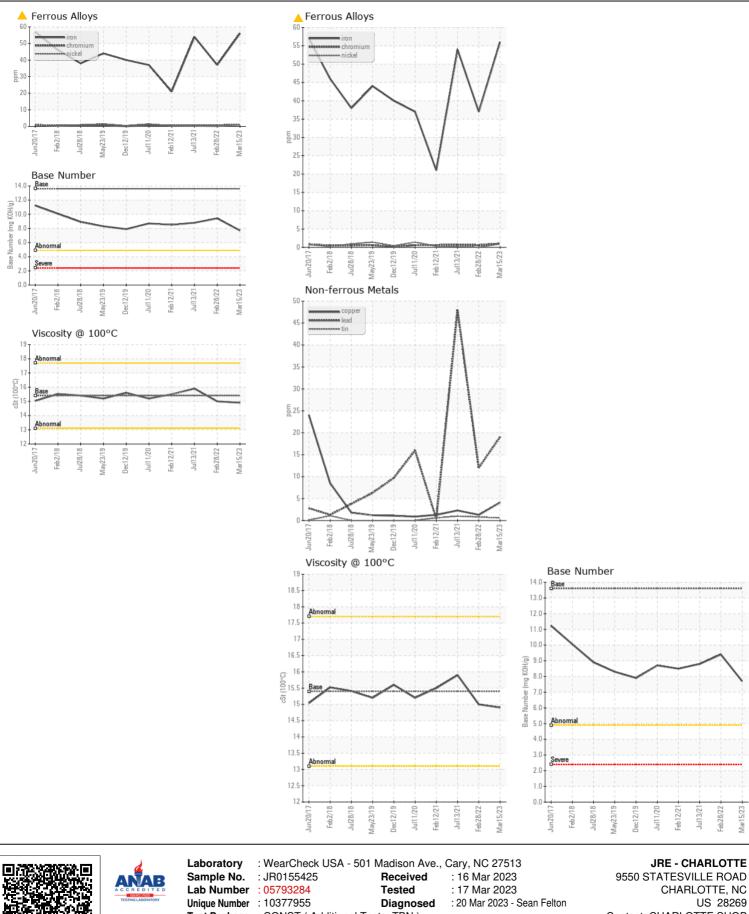
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			Line 2 / Alex	0	I Bata with	Linker
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0155425	JR0119609	JR0096139
Sample Date		Client Info		15 Mar 2023	28 Feb 2022	13 Jul 2021
Machine Age	hrs	Client Info		5445	4958	4512
Oil Age	hrs	Client Info		500	500	0
Filter Age	hrs	Client Info		500	500	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAI
Iron	ppm	ASTM D5185m	>51	5 6	37	5 4
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	- <1	0	<1
Titanium	ppm	ASTM D5185m	>5	<1	<1	<1
Silver		ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	7	6	3
Lead	ppm	ASTM D5185m	>26	7 19	12	48
	ppm	ASTM D5185m	>26	4	1	40
Copper Tin	ppm	ASTM D5185m	>20	4 <1	<1	2
Vanadium	ppm		24	<1 <1	<1	<1
White Metal	ppm	ASTM D5185m *Visual	NONE		NONE	< I NONE
	scalar			NONE		
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	8	8	9
Potassium	ppm	ASTM D5185m	>20	2	0	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	2.7	2	2.5
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.6	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.7	26.2	27.9
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	NORM
Odor	scalar	*Visual	NORML	NORML	NORML	NORM
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
Sodium	nom	ASTM D5185m	>31	0	0	2
Boron	ppm	ASTM D5185m	201	136	191	204
Barium	ppm ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		247	251	285
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		742	838	870
Calcium	ppm	ASTM D5185m		1408	1572	1639
Phosphorus	ppm	ASTM D5185m		880	882	967
Zinc		ASTM D5185m		1051	1046	1083
	ppm				2536	2673
	nnm	ASIM hhlghm				(0/0)
Sulfur	ppm	ASTM D5185m	> 2E	2889		
	ppm Abs/.1mm mg KOH/g	ASTM D5185m *ASTM D7414 ASTM D2896	>25 13.6	16.8 7.7	17.8 9.4	19 8.8



 Certificate 12367
 Test Package
 : CONST (Additional Tests: TBN)
 Contact: CHARLOTTE SHOP

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 myoung@jamesriverequipment.com

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (704)597-0211

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (704)596-6198

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