

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



Area [W48304]

JOHN DEERE 650K 1T0650KKPJF344840

Diesel Engine

Diesel Engine							
DIESEL ENGINE OIL SAE 40 (-	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	00.01	Client Info	Little7 tot1	JR0134917	JR0119389	JR0080074
	Sample Date		Client Info		10 Jul 2022	13 Mar 2022	03 Jun 2021
	Machine Age	hrs	Client Info		2879	2335	1468
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	500	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR The lead level has decreased, but is still abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	26	47	18
	Chromium	ppm	ASTM D5185m		<1	2	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>31	5	8	2
	Lead	ppm	ASTM D5185m	>26	4 4	1 37	8
	Copper	ppm	ASTM D5185m	>26	4	7	5
	Tin	ppm	ASTM D5185m	>4	2	4	1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	9	12	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	2
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	1.2	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	11.7	14.1	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.0	33.9	25
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
<u></u>	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		99	48	204
	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m	100	261	266	254
	Manganese	ppm	ASTM D5185m	450	<1	2	<1
	Magnesium	ppm	ASTM D5185m		823	897	808
	Calcium	ppm	ASTM D5185m		1528	1642	1515
	Phosphorus	ppm	ASTM D5185m		844	919	910
	Zinc	ppm	ASTM D5185m		1063	1125	1045
	Sulfur	ppm	ASTM D5185m	4250	3365	2577	2438

Oxidation

Visc @ 100°C cSt

24.6

8.4

14.3

30.1

7.9

13.7

Abs/.1mm *ASTM D7414 >25

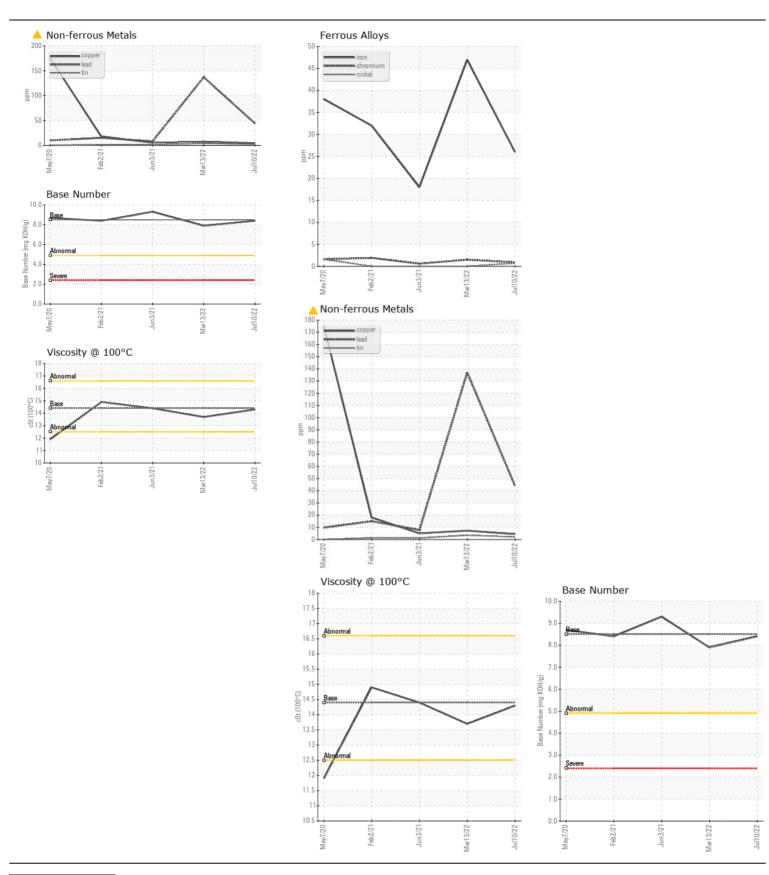
ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

19.4

14.4

9.3







Laboratory Sample No.

: JR0134917 Lab Number : 05587049

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

Unique Number : 10046496

Received : 11 Jul 2022 **Tested** : 12 Jul 2022 Diagnosed

: 12 Jul 2022 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269 Contact: CHARLOTTE SHOP

myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198

Test Package : CONST (Additional Tests: TBN) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)