

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



[W44886]

## JOHN DEERE 650K 1T0650KKPJF344840

Component Diesel Engine

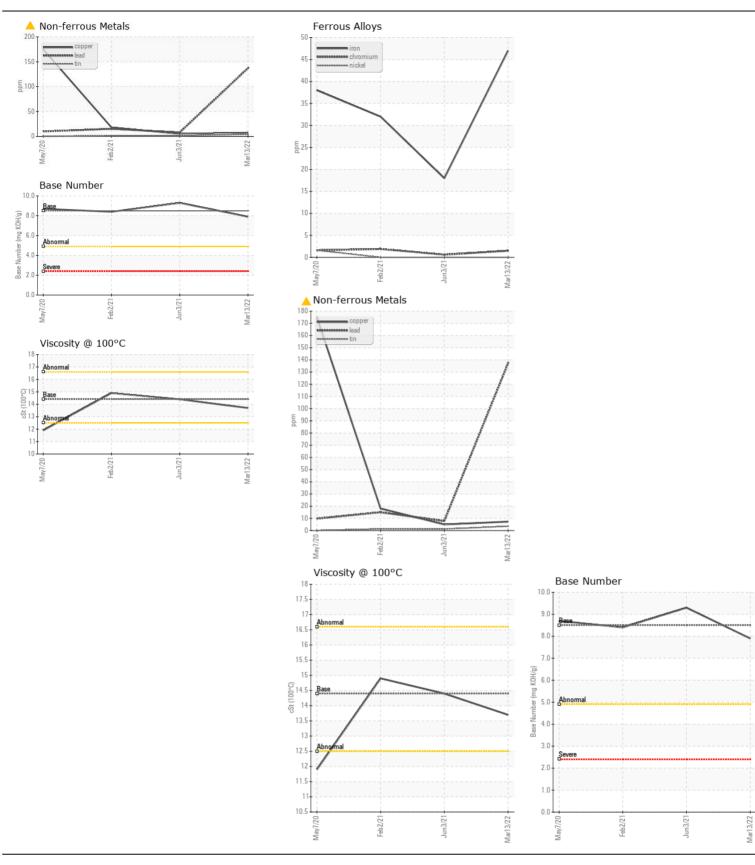
DIESEL ENGINE OIL SAE 40 (	- GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Oil and filter change	Sample Number		Client Info		JR0119389	JR0080074	
	Sample Date		Client Info		13 Mar 2022	03 Jun 2021	02 Feb 2021
at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		2335	1468	0
resample to monitor this condition.	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	NORMAL	NORMAL
WEAR  The lead level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	47	18	32
	Chromium	ppm	ASTM D5185m	>11	2	<1	2
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		8	2	9
	Lead	ppm	ASTM D5185m		<u> </u>	8	15
	Copper	ppm	ASTM D5185m		7	5	18
	Tin	ppm	ASTM D5185m	>4	4	1	1
	Vanadium	ppm	ASTM D5185m	NONE	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	12	6	8
There is no indication of any content of the sile	Potassium	ppm	ASTM D5185m	>20	0	2	11
There is no indication of any contamination in the oil.	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	1.2	0.5	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	14.1	10.1	11.5
	Sulfation	Abs/.1mm	*ASTM D7415		33.9	25	27.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
			visuai		·····	INLG	INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		48	204	93
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	266	254	196
	Manganese	ppm	ASTM D5185m	450	2	<1	1
	Magnesium	ppm	ASTM D5185m		897	808	715
	Calcium	ppm	ASTM D5185m		1642	1515	1870
	Phosphorus	ppm	ASTM D5185m		919	910	1046
	Zinc	ppm	ASTM D5185m		1125	1045	1211
	Sulfur	ppm Abo/1mm	*ASTM D5185m		2577	2438	2587
	Oxidation	Abs/.1mm			30.1	19.4	21.9
	Base Number (BN)	mg KUH/g	ASTIVI D2896	8.5	7.9	9.3	8.4

13.7

14.4

Visc @ 100°C cSt ASTM D445 14.4

14.9







Laboratory Sample No. Unique Number : 9890100

Lab Number : 05490880

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0119389

Received

**Tested** Diagnosed

: 14 Mar 2022 : 16 Mar 2022

: 16 Mar 2022 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD

CHARLOTTE, NC US 28269

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Report Id: JAMCHA [WUSCAR] 05490880 (Generated: 02/16/2024 14:25:01) Rev: 1

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)

Contact/Location: Mike Young - CHARLOTTE SHOP - JAMCHA