



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**CAROLINE**  
 Machine Id  
**JOHN DEERE 844K-III M02-0904 1DW844KCLJF692876**  
 Component  
**Diesel Engine**  
 Fluid  
**CASTROL 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0180708</b>	JR0147698	JR0147690
Sample Date		Client Info		<b>31 Jan 2024</b>	08 Dec 2023	20 Oct 2023
Machine Age	hrs	Client Info		<b>9556</b>	9244	8950
Oil Age	hrs	Client Info		<b>312</b>	294	290
Filter Age	hrs	Client Info		<b>312</b>	294	290
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>5</b>	6	5
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>26	<b>3</b>	4	2
Copper	ppm	ASTM D5185m	>26	<b>3</b>	4	3
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

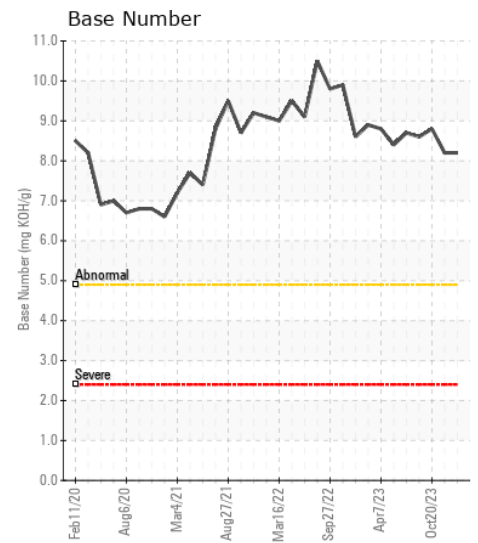
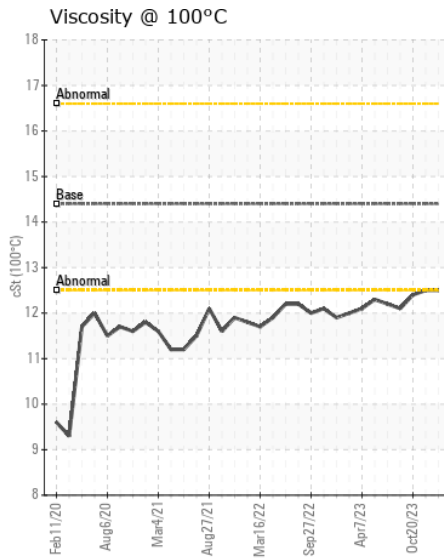
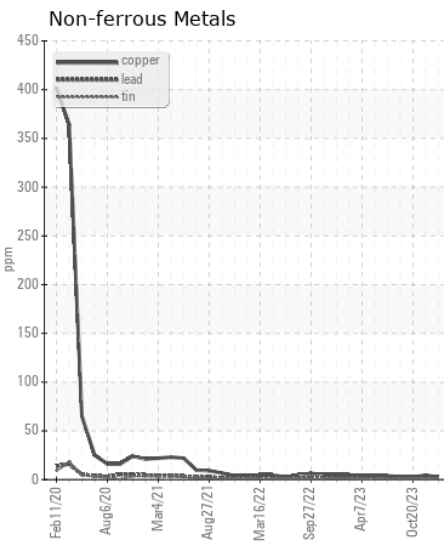
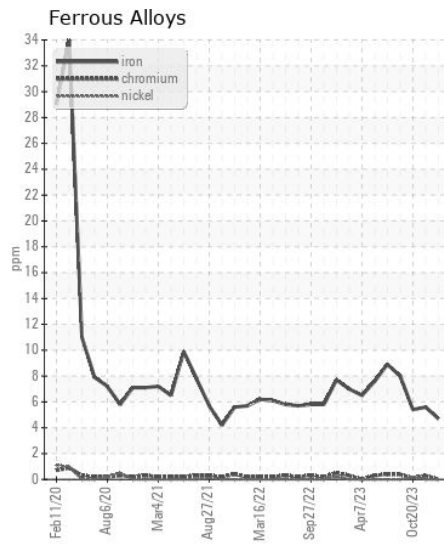
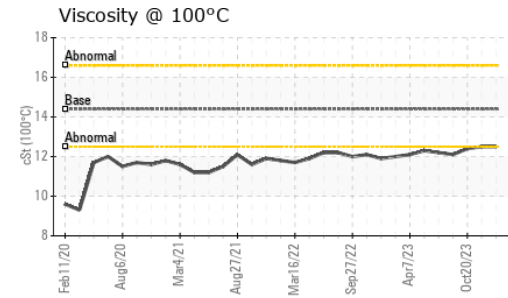
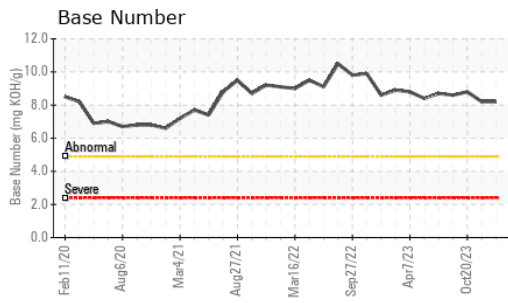
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>3</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	10.3	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	21.0	20.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	NEG	NEG

### 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.

Sodium	ppm	ASTM D5185m	>406	<b>&lt;1</b>	6	3
Boron	ppm	ASTM D5185m		<b>67</b>	67	67
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>63</b>	64	69
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1040</b>	1141	1185
Calcium	ppm	ASTM D5185m		<b>914</b>	1002	1040
Phosphorus	ppm	ASTM D5185m		<b>1003</b>	1089	1126
Zinc	ppm	ASTM D5185m		<b>1230</b>	1366	1437
Sulfur	ppm	ASTM D5185m		<b>3050</b>	3463	3701
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	19.5	18.0
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.2</b>	8.2	8.8
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.5</b>	12.5	12.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0180708 **Recieved** : 01 Feb 2024  
**Lab Number** : 06076623 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10858714 **Diagnostician** : Wes Davis  
**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)

**LUCK STONE**  
 19380 RICHMOND TURNPIKE  
 MILFORD, VA  
 US 22514  
 Contact: BRYAN MORRIS  
 bmorris@luckstone.com  
 T: (804)400-3630  
 F: x: