



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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		JR0180711	JR0180708	JR0147698
Sample Date		Client Info		16 Mar 2024	31 Jan 2024	08 Dec 2023
Machine Age	hrs	Client Info		9835	9556	9244
Oil Age	hrs	Client Info		279	312	294
Filter Age	hrs	Client Info		279	312	294
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	7	5	6
Chromium	ppm	ASTM D5185m	>11	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	2	2
Lead	ppm	ASTM D5185m	>26	3	3	4
Copper	ppm	ASTM D5185m	>26	3	3	4
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

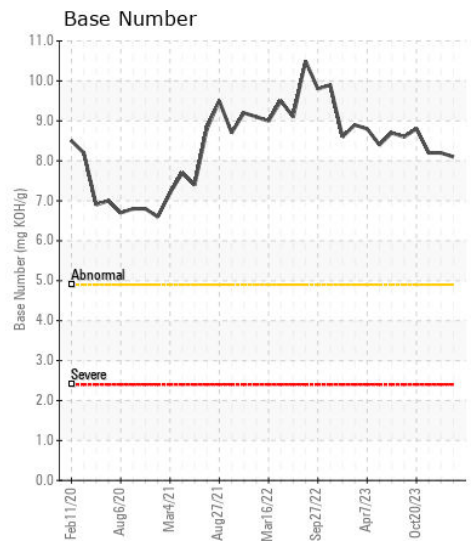
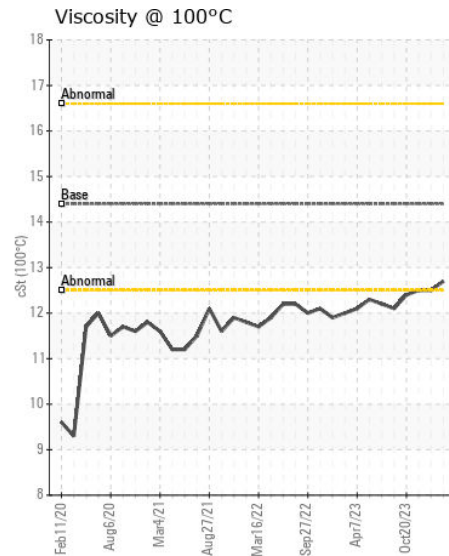
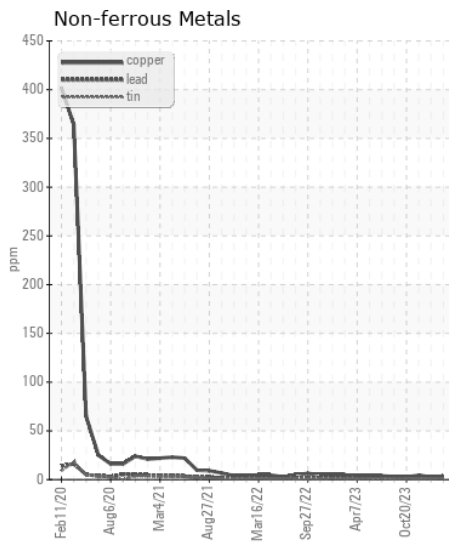
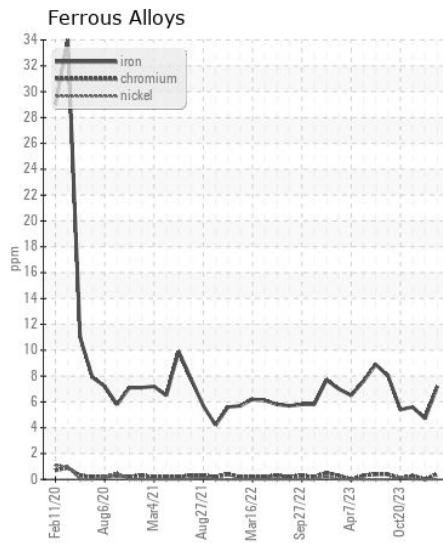
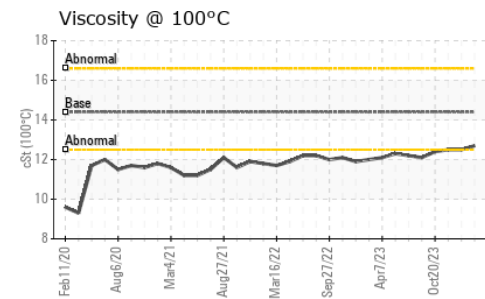
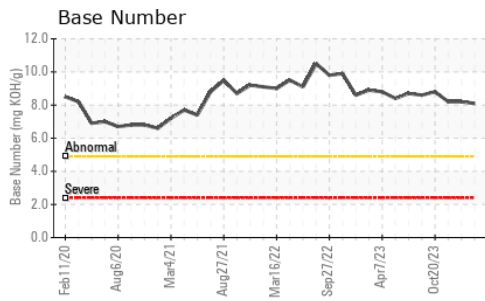
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	5	3	5
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
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	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.2	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.9	21.0
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	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	2	<1	6
Boron	ppm	ASTM D5185m		67	67	67
Barium	ppm	ASTM D5185m		2	<1	0
Molybdenum	ppm	ASTM D5185m		68	63	64
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1101	1040	1141
Calcium	ppm	ASTM D5185m		1111	914	1002
Phosphorus	ppm	ASTM D5185m		1031	1003	1089
Zinc	ppm	ASTM D5185m		1297	1230	1366
Sulfur	ppm	ASTM D5185m		3640	3050	3463
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	19.3	19.5
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	8.2	8.2
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	12.5	12.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0180711 **Received** : 21 Mar 2024
Lab Number : 06125361 **Tested** : 22 Mar 2024
Unique Number : 10939512 **Diagnosed** : 22 Mar 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

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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)