



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE - COLLIER BROTHERS**  
 Component  
**Right Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (7 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0008750</b>	KL0011448	KL0011426
Sample Date		Client Info		<b>02 Jul 2024</b>	21 Mar 2024	18 Feb 2024
Machine Age	hrs	Client Info		<b>41640</b>	40913	40560
Oil Age	hrs	Client Info		<b>727</b>	716	373
Filter Age	hrs	Client Info		<b>727</b>	716	373
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>12</b>	12	8
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	0
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>	1	2
Lead	ppm	ASTM D5185m	>26	<b>0</b>	1	0
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

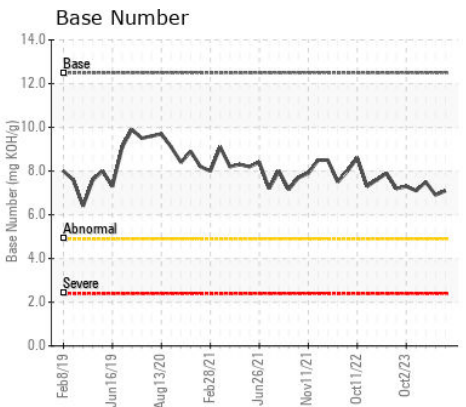
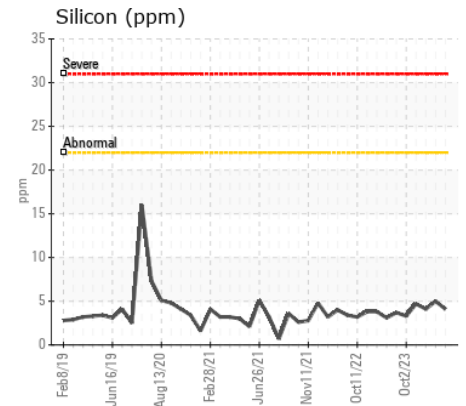
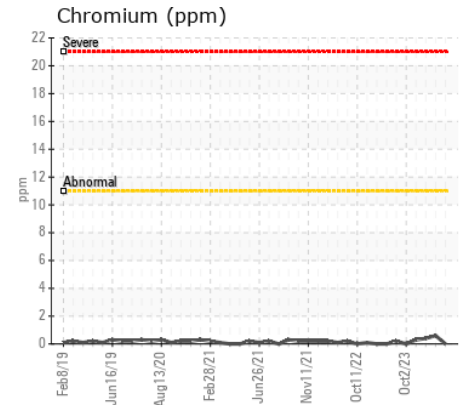
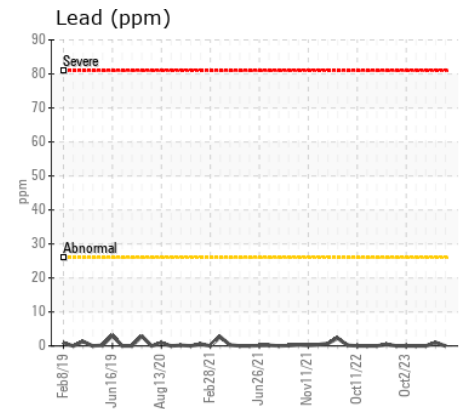
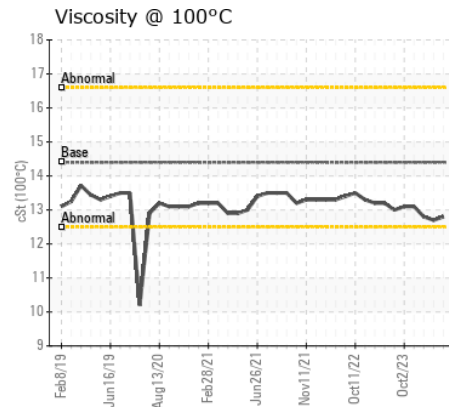
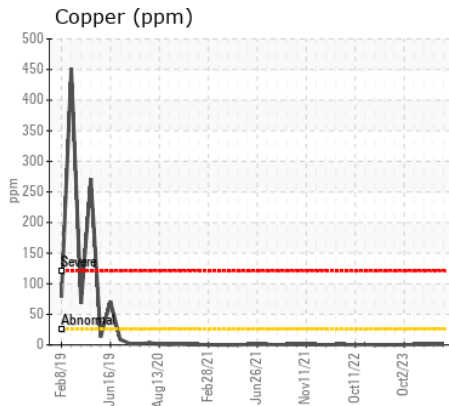
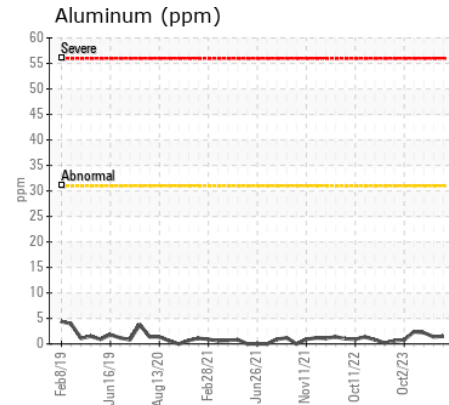
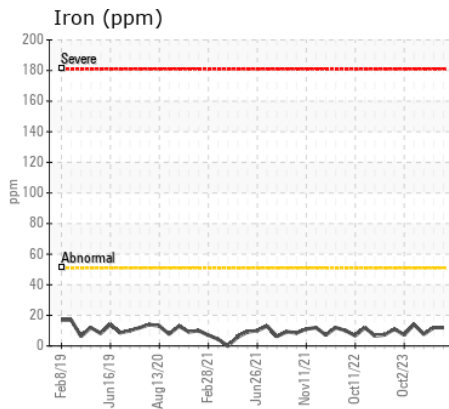
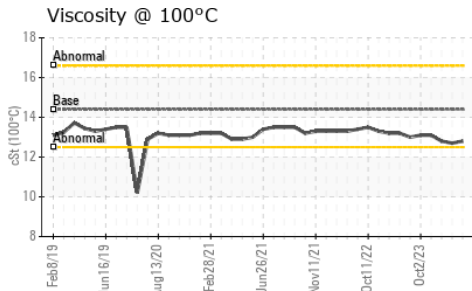
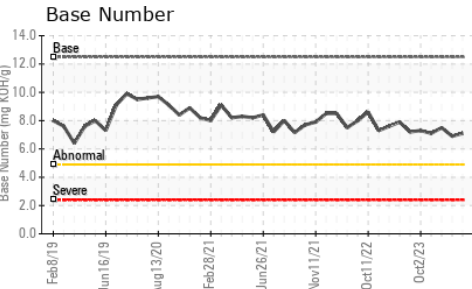
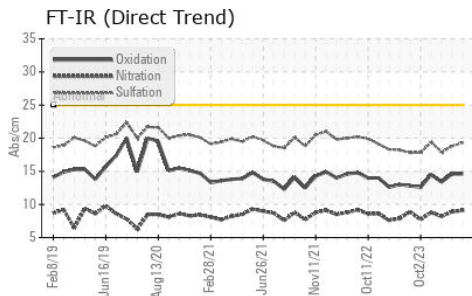
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>4</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	2
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>0.3</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	8.9	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.3</b>	18.8	17.9
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	>31	<b>4</b>	0	<1
Boron	ppm	ASTM D5185m	151	<b>74</b>	80	109
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>8</b>	9	8
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	0	<b>742</b>	713	723
Calcium	ppm	ASTM D5185m	2046	<b>1383</b>	1326	1323
Phosphorus	ppm	ASTM D5185m	1043	<b>793</b>	805	827
Zinc	ppm	ASTM D5185m	943	<b>886</b>	879	885
Sulfur	ppm	ASTM D5185m	5012	<b>3702</b>	3244	3229
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	14.6	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	<b>7.1</b>	6.9	7.5
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.8</b>	12.7	12.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0008750  
**Lab Number** : 06231893  
**Unique Number** : 11115386  
**Test Package** : MOB1+  
**Received** : 09 Jul 2024  
**Tested** : 10 Jul 2024  
**Diagnosed** : 11 Jul 2024 - Don Baldridge

**BLUE PACIFIC LEASING**  
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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)