



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE D/G #2 (S/N CD4045CO13008)**

Component  
**2 Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (13 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0693932</b>	WC0693933	WC0693929
Sample Date		Client Info		<b>11 Sep 2022</b>	02 Jul 2022	22 Jun 2022
Machine Age	hrs	Client Info		<b>18390</b>	17888	17394
Oil Age	hrs	Client Info		<b>502</b>	500	500
Filter Age	hrs	Client Info		<b>502</b>	500	500
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 D5185(m)	>51	<b>14</b>	10	8
Chromium	ppm	ASTM D5185(m)	>11	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>1</b>	2	1
Lead	ppm	ASTM D5185(m)	>26	<b>1</b>	0	0
Copper	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

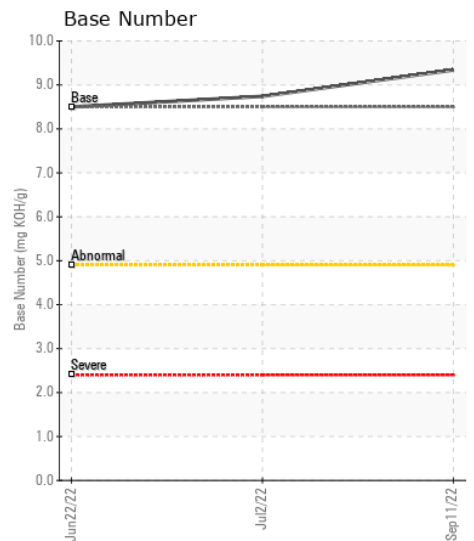
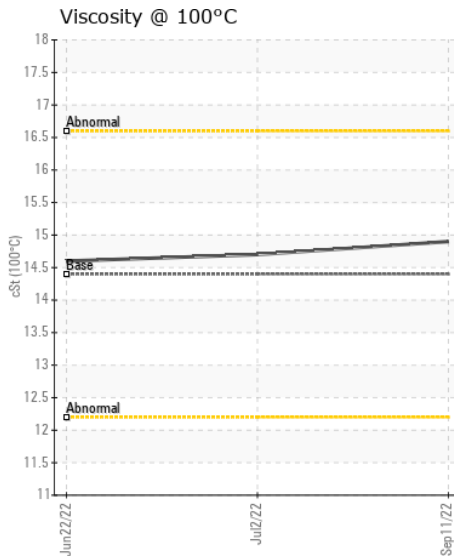
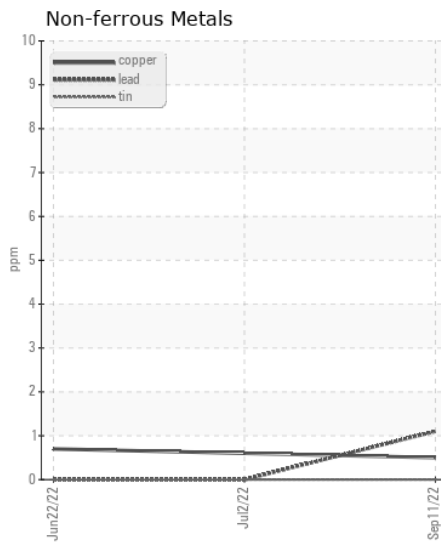
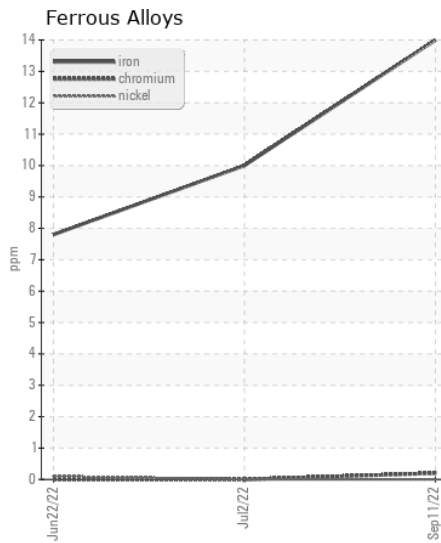
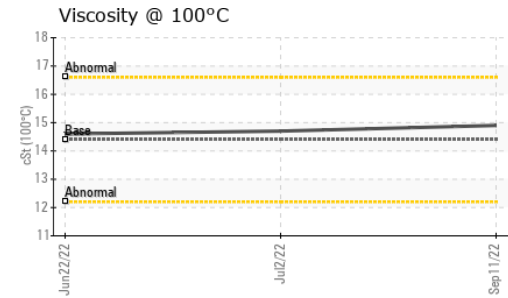
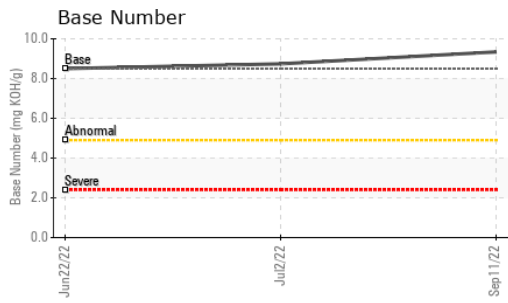
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>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</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.0</b>	8.8	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.0</b>	21.2	20.4
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 D5185(m)	>158	<b>3</b>	3	2
Boron	ppm	ASTM D5185(m)	250	<b>19</b>	82	99
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>66</b>	65	64
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>930</b>	504	416
Calcium	ppm	ASTM D5185(m)	3000	<b>1434</b>	1840	1888
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1169</b>	1160	1059
Zinc	ppm	ASTM D5185(m)	1350	<b>1315</b>	1301	1275
Sulfur	ppm	ASTM D5185(m)	4250	<b>3019</b>	3296	3282
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>11.1</b>	18.2	17.2
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	<b>9.34</b>	8.74	8.50
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.9</b>	14.7	14.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CANSHIP UGLAND - CRT EXPRESS**  
**Sample No.** : WC0693932 **Received** : 22 Sep 2022 1315 TOPSAIL ROAD, PO BOX 8040 STN A  
**Lab Number** : 02512290 **Diagnosed** : 22 Sep 2022 ST JOHNS, NL  
**Unique Number** : 5461265 **Diagnostician** : Kevin Marson CA A1B 3M7  
**Test Package** : MAR 2

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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