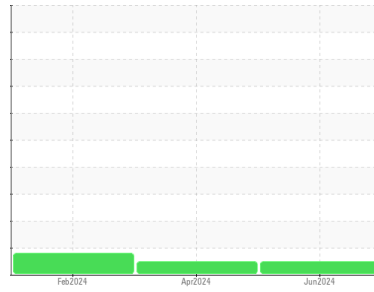




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**JOHN DEERE 644K LDR007**  
 Component  
**Front Differential**  
 Fluid  
**ESSO HYDRAUL 56 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0930808</b>	WC0925843	WC0904231
Sample Date	Client Info		<b>15 Jun 2024</b>	17 Apr 2024	18 Feb 2024
Machine Age	hrs	Client Info	<b>8264</b>	7791	7398
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>420	<b>47</b>	49	184
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>5	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>95	<b>43</b>	30	▲ 107
Copper	ppm	ASTM D5185(m)	>170	<b>30</b>	20	53
Tin	ppm	ASTM D5185(m)	>15	<b>1</b>	<1	3
Antimony	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

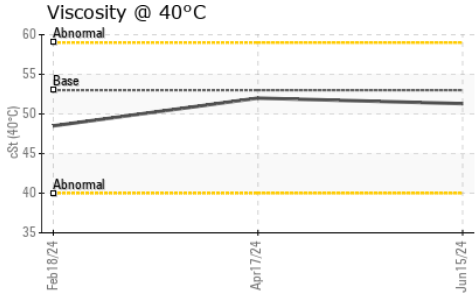
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>81</b>	83	6
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	3
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	4
Magnesium	ppm	ASTM D5185(m)		<b>23</b>	26	71
Calcium	ppm	ASTM D5185(m)		<b>3296</b>	3575	2839
Phosphorus	ppm	ASTM D5185(m)		<b>1076</b>	1100	765
Zinc	ppm	ASTM D5185(m)		<b>1299</b>	1349	938
Sulfur	ppm	ASTM D5185(m)		<b>6355</b>	6299	3298
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>35	<b>6</b>	6	6
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	3



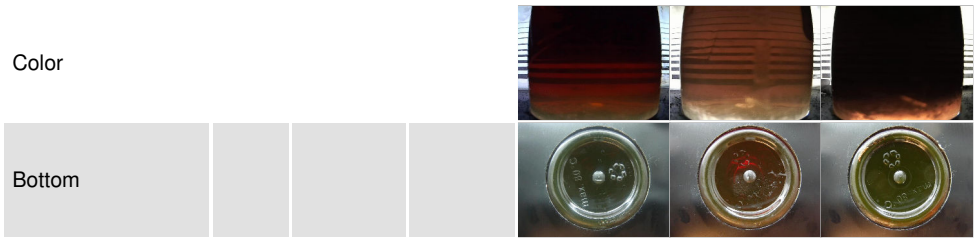
# OIL ANALYSIS REPORT



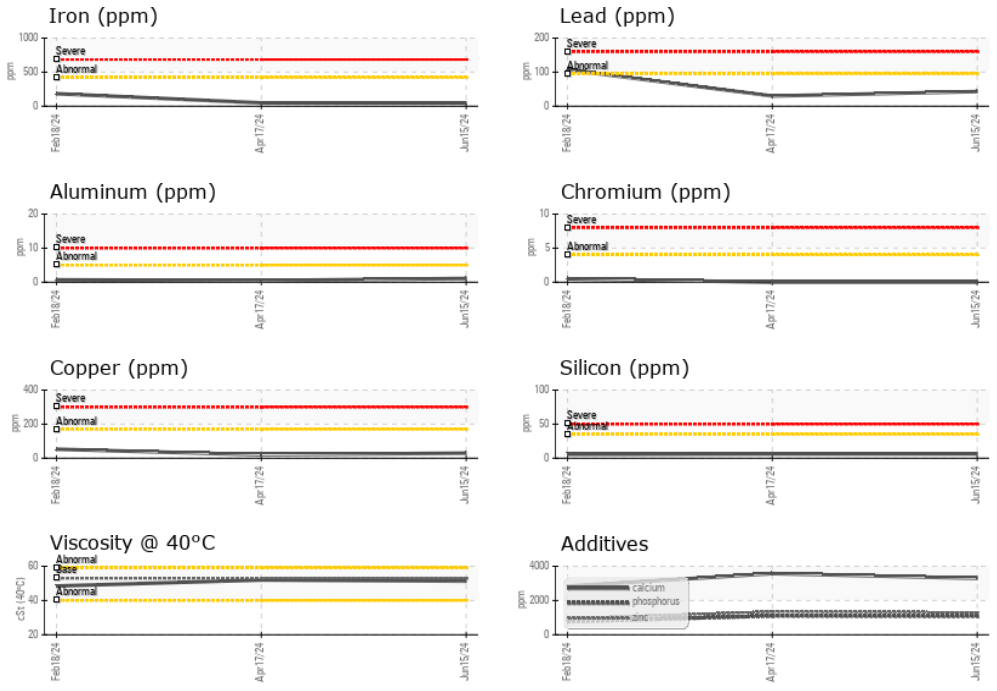
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	53	51.3	52.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0930808  
**Lab Number** : **02643800**  
**Unique Number** : 5801339  
**Test Package** : MOB 1  
**Received** : 24 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Wes Davis

**Agnico Eagle Canada**  
 1350 Government Rd. W, MACASSA COMPLEX  
 Kirkland Lake, ON  
 CA P2N 3J1  
 Contact: Mitch Lamontagne  
 AEM\_KL\_macassaoilsamplesresults@agnicoeagle.com

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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