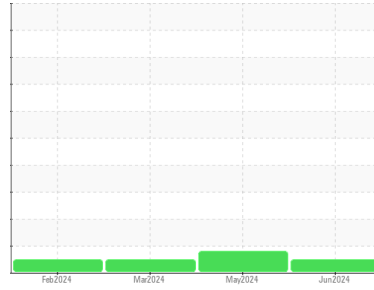




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**ghi.ya**

Machine ID  
**JOHN DEERE Feed Generator (S/N PE4045N026883)**

Component

**Diesel Engine**

Fluid

**MOBIL 15W40 (30 LTR)**

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0894272</b>	WC0894241	WC0894276
Sample Date	Client Info			<b>23 Jun 2024</b>	27 May 2024	17 Mar 2024
Machine Age	hrs	Client Info		<b>4060</b>	3610	2910
Oil Age	hrs	Client Info		<b>410</b>	700	435
Oil Changed	Client Info			<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	<b>7</b>	12	11
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185(m)	>26	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>26	<b>7</b>	▲ 30	1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<b>0</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>71</b>	19	12
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>11</b>	66	85
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)		<b>16</b>	37	205
Calcium	ppm	ASTM D5185(m)		<b>2059</b>	2063	1886
Phosphorus	ppm	ASTM D5185(m)		<b>955</b>	977	976
Zinc	ppm	ASTM D5185(m)		<b>1134</b>	1168	1175
Sulfur	ppm	ASTM D5185(m)		<b>2814</b>	2793	2855
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

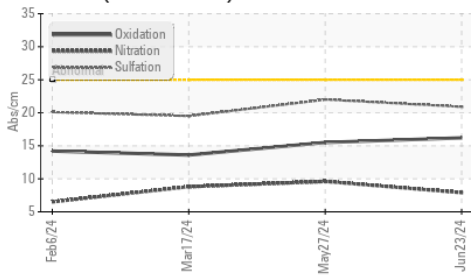
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	<b>2</b>	4	4
Sodium	ppm	ASTM D5185(m)	>118	<b>3</b>	4	1
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	1.2	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.9</b>	9.6	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.9</b>	22.0	19.5

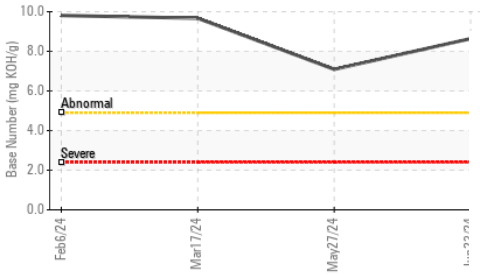


# OIL ANALYSIS REPORT

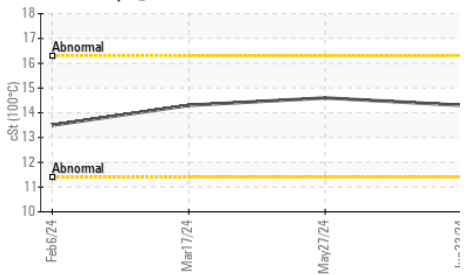
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C



**FLUID DEGRADATION**    method    limit/base    current    history1    history2

Oxidation	Abs./1mm	ASTM D7414*	>25	<b>16.2</b>	15.5	13.6
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>8.64</b>	7.09	9.67

**VISUAL**    method    limit/base    current    history1    history2

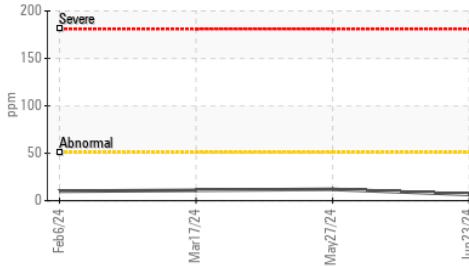
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

**FLUID PROPERTIES**    method    limit/base    current    history1    history2

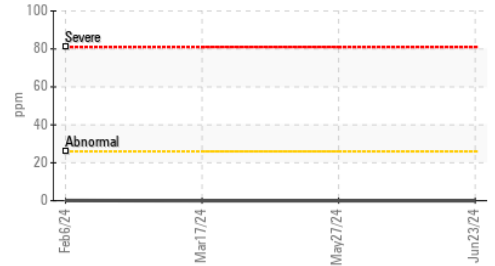
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.3</b>	14.6	14.3
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**GRAPHS**

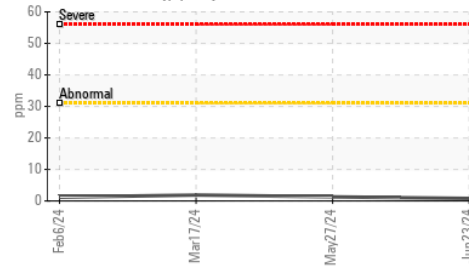
Iron (ppm)



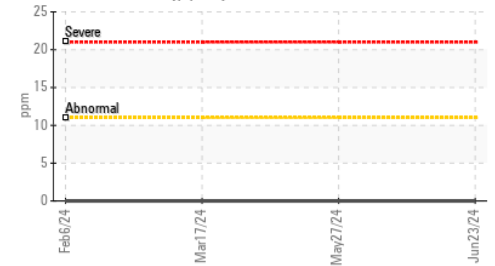
Lead (ppm)



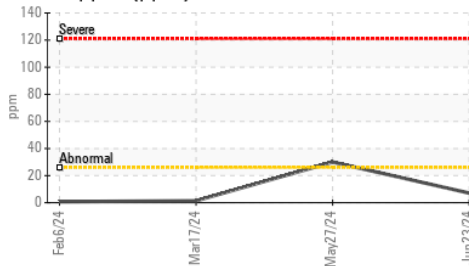
Aluminum (ppm)



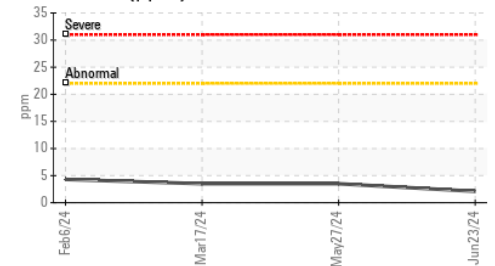
Chromium (ppm)



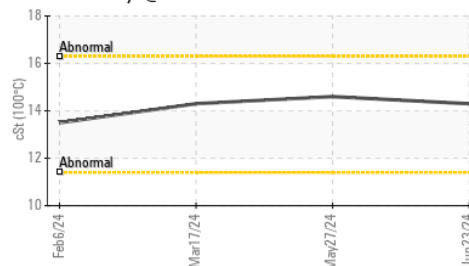
Copper (ppm)



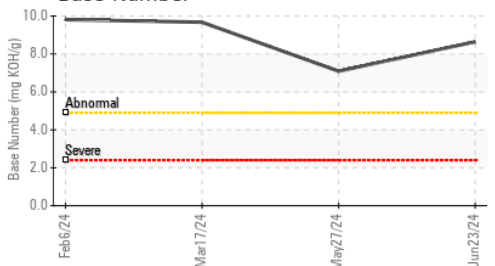
Silicon (ppm)



Viscosity @ 100°C



Base Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0894272    **Received** : 09 Jul 2024  
**Lab Number** : **02646638**    **Tested** : 10 Jul 2024  
**Unique Number** : 5812190    **Diagnosed** : 10 Jul 2024 - Wes Davis  
**Test Package** : MOB 2

**Mowi Canada West**  
 7200 Coho Road  
 Port Hardy, BC  
 CA V0N 2P0  
 Contact: Brian Dalton  
 brian.dalton@mowi.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.