



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Marsh Bay B barge

Machine Id

JOHN DEERE John Deere (S/N PE4045N044168)

Component

Diesel Engine

Fluid

MOBIL 15W40 (30 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0894282	WC0894258	---
Sample Date		Client Info		15 Mar 2024	02 Feb 2024	---
Machine Age	hrs	Client Info		3380	2560	---
Oil Age	hrs	Client Info		820	360	---
Filter Age	hrs	Client Info		290	360	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	6	7	---
Chromium	ppm	ASTM D5185(m)	>11	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>31	<1	1	---
Lead	ppm	ASTM D5185(m)	>26	0	<1	---
Copper	ppm	ASTM D5185(m)	>26	<1	<1	---
Tin	ppm	ASTM D5185(m)	>4	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

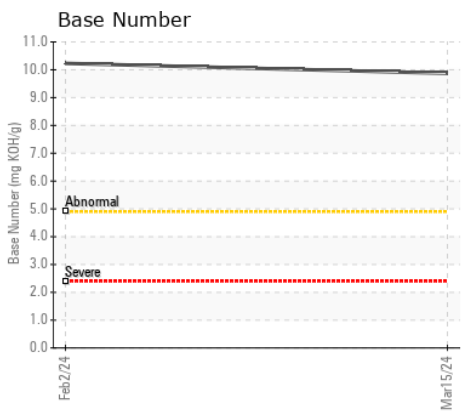
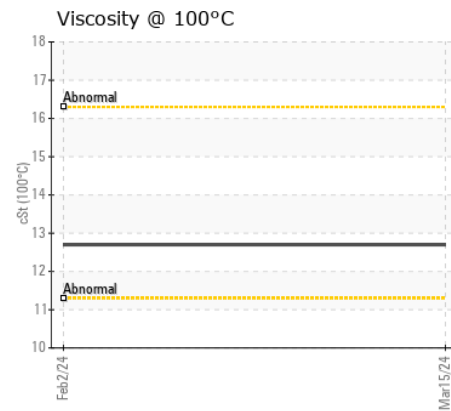
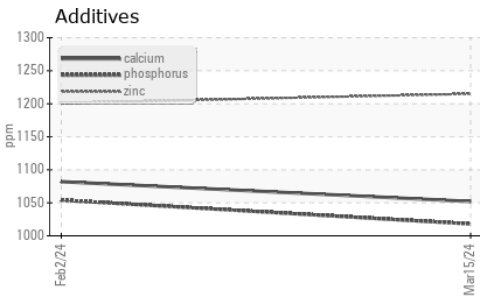
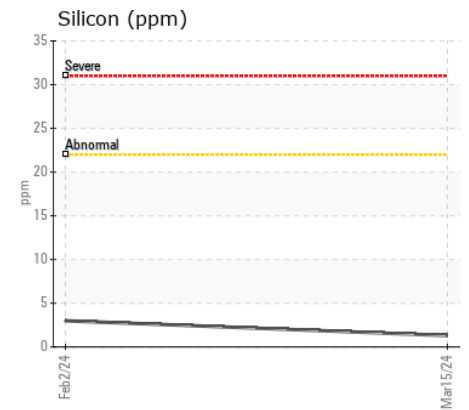
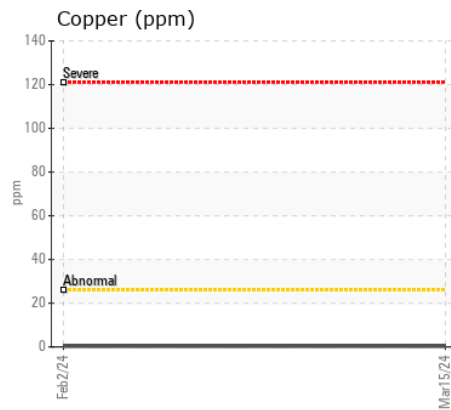
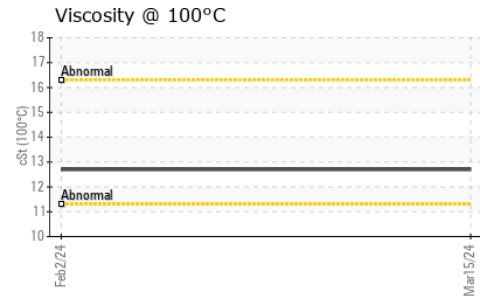
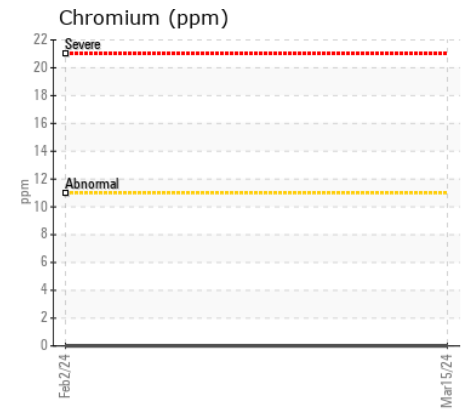
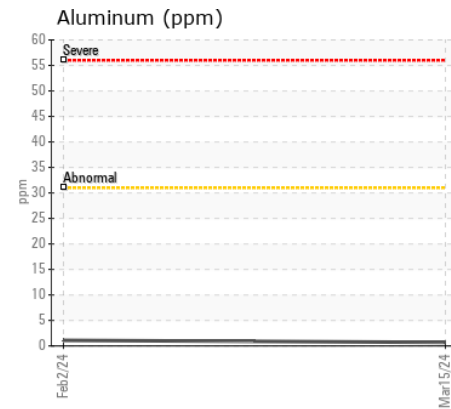
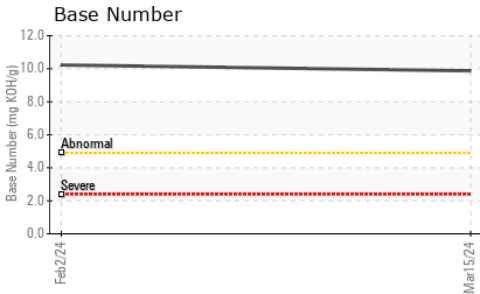
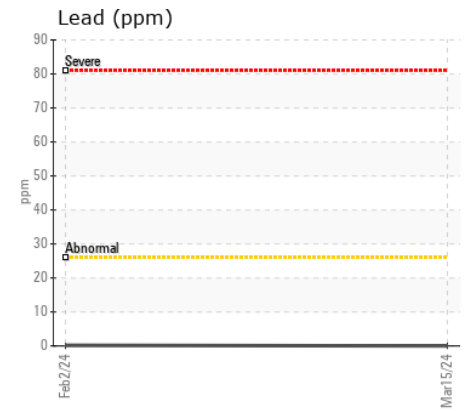
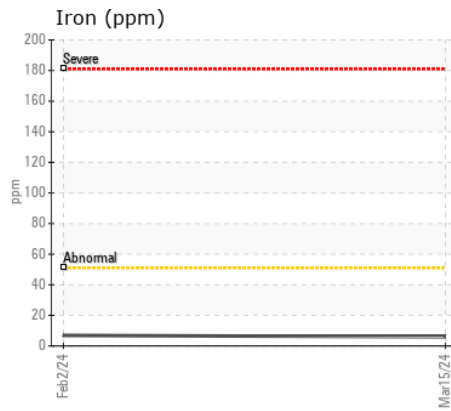
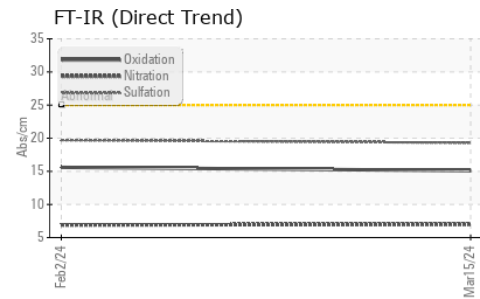
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	1	3	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	19.7	---
Emulsified Water	scalar	Visual*	>0.21	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)	>118	<1	<1	---
Boron	ppm	ASTM D5185(m)		<1	1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		61	60	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		987	992	---
Calcium	ppm	ASTM D5185(m)		1052	1082	---
Phosphorus	ppm	ASTM D5185(m)		1018	1054	---
Zinc	ppm	ASTM D5185(m)		1215	1201	---
Sulfur	ppm	ASTM D5185(m)		2670	2896	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.1	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896*		9.87	10.23	---
Visc @ 100°C	cSt	ASTM D7279(m)		12.7	12.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0894282 **Received** : 08 Apr 2024
Lab Number : 02627250 **Tested** : 09 Apr 2024
Unique Number : 5760382 **Diagnosed** : 09 Apr 2024 - Wes Davis
Test Package : MOB 2

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 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.

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F: