



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Marsh Bay A Barge
 Machine Id
JOHN DEERE Feed Generator (S/N PE4045N044169)
 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		WC0894283	WC0894249	---
Sample Date		Client Info		15 Mar 2024	02 Feb 2024	---
Machine Age	hrs	Client Info		3660	2980	---
Oil Age	hrs	Client Info		680	255	---
Filter Age	hrs	Client Info		280	255	---
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	9	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

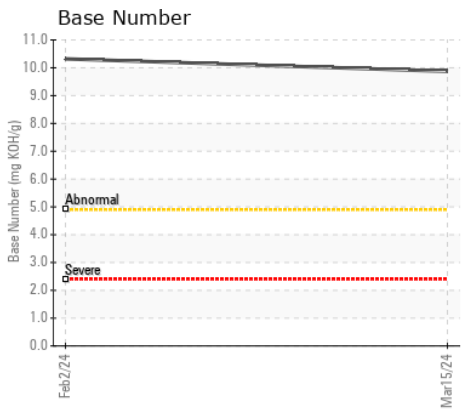
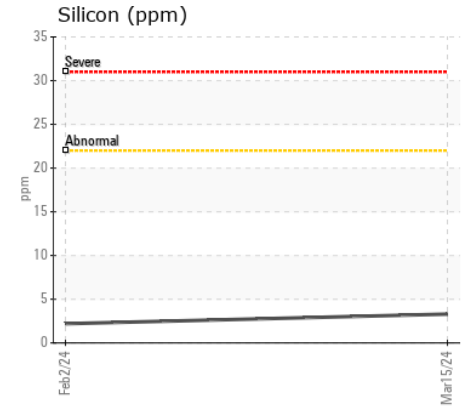
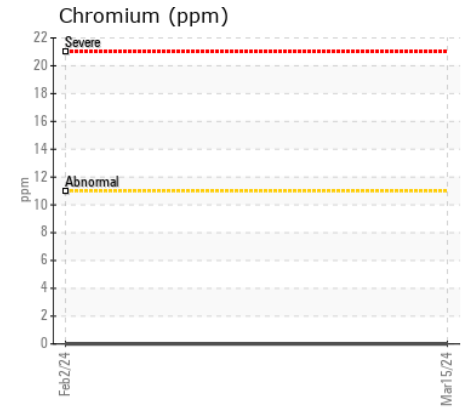
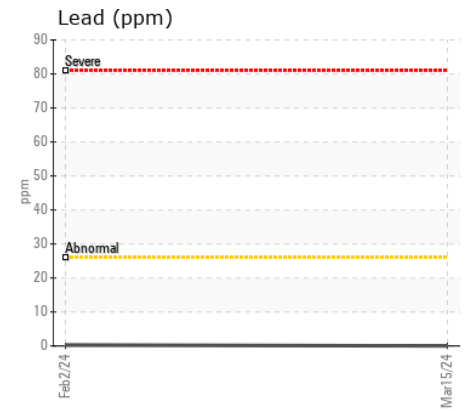
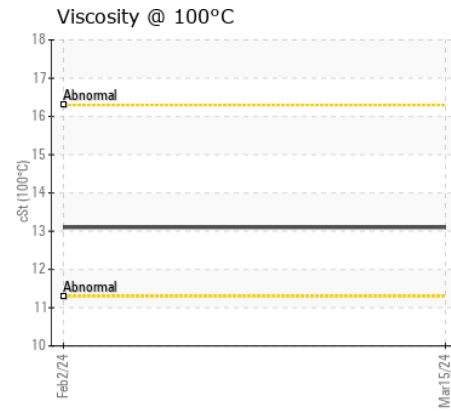
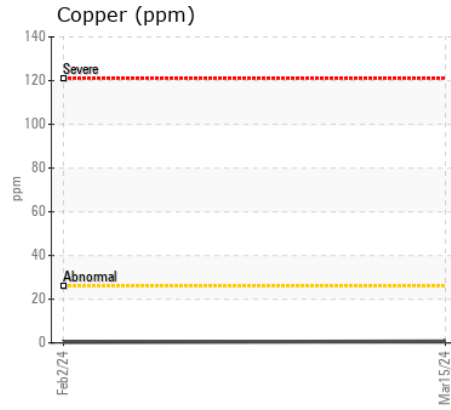
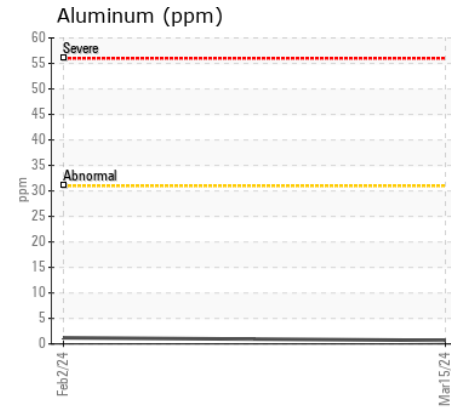
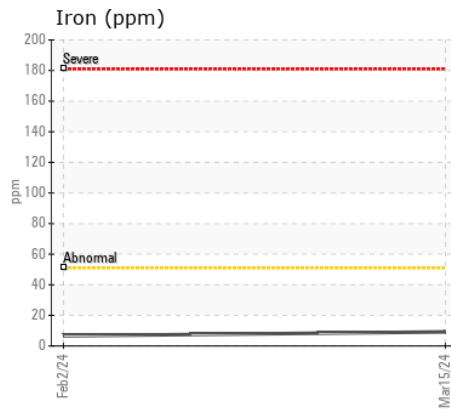
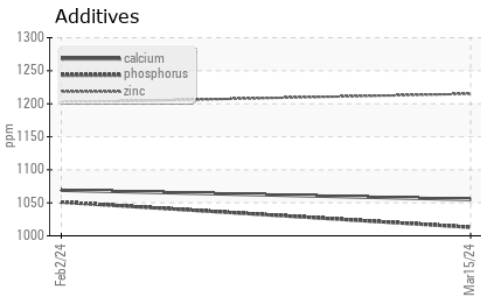
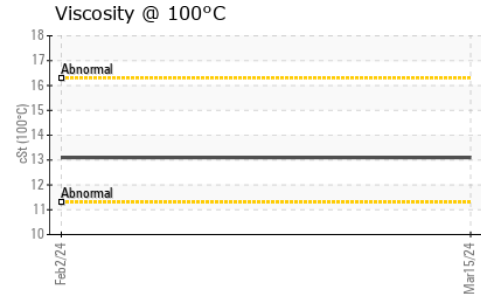
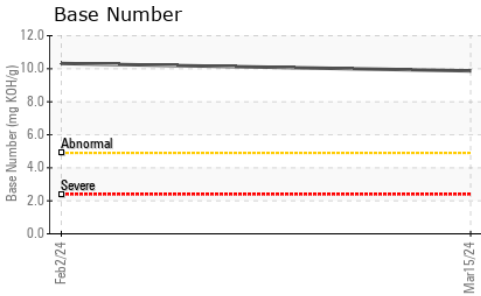
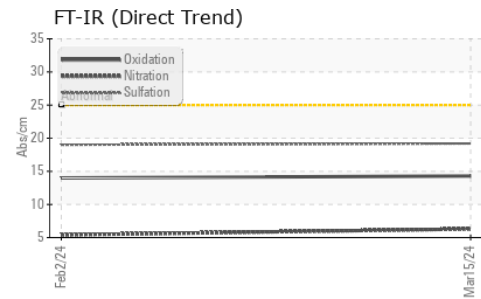
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	3	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<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	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.3	5.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	19.0	---
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)		62	61	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		993	1004	---
Calcium	ppm	ASTM D5185(m)		1055	1069	---
Phosphorus	ppm	ASTM D5185(m)		1013	1051	---
Zinc	ppm	ASTM D5185(m)		1215	1202	---
Sulfur	ppm	ASTM D5185(m)		2655	2914	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	14.0	---
Base Number (BN)	mg KOH/g	ASTM D2896*		9.87	10.32	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.1	13.1	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : WC0894283

Lab Number : 02627215

Unique Number : 5760347

Test Package : MOB 2

Received : 08 Apr 2024

Tested : 09 Apr 2024

Diagnosed : 09 Apr 2024 - Wes Davis

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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