



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		WC0894245	WC0894282	WC0894258
Sample Date		Client Info		11 May 2024	15 Mar 2024	02 Feb 2024
Machine Age	hrs	Client Info		4360	3380	2560
Oil Age	hrs	Client Info		900	820	360
Filter Age	hrs	Client Info		175	290	360
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

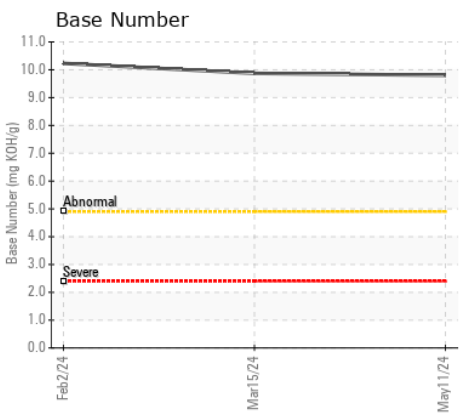
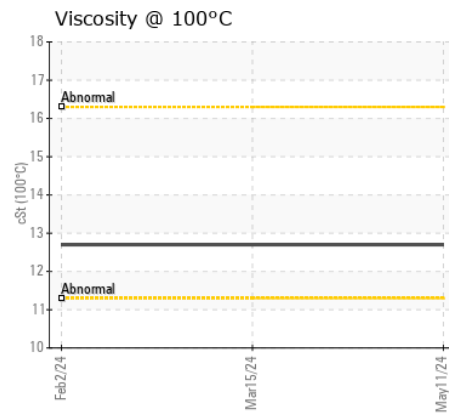
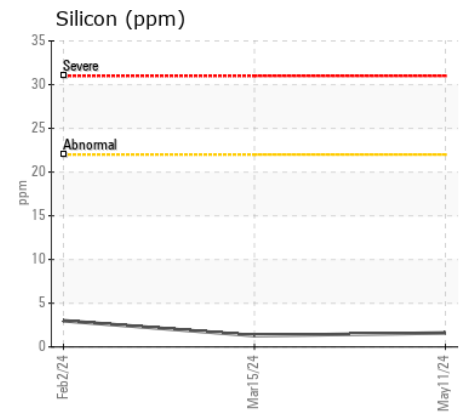
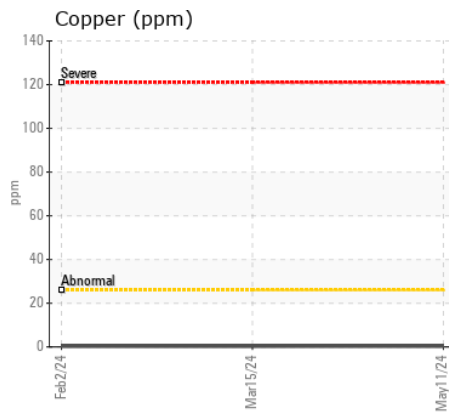
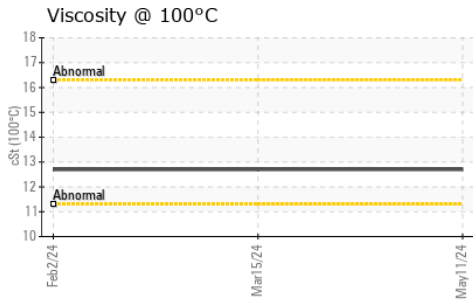
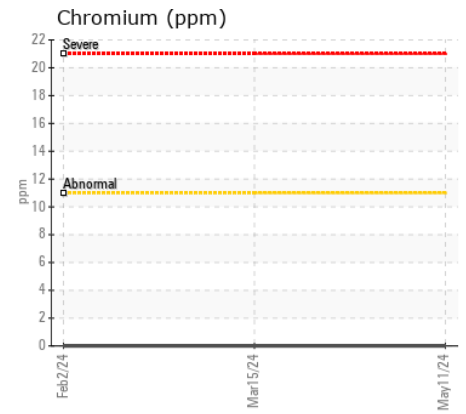
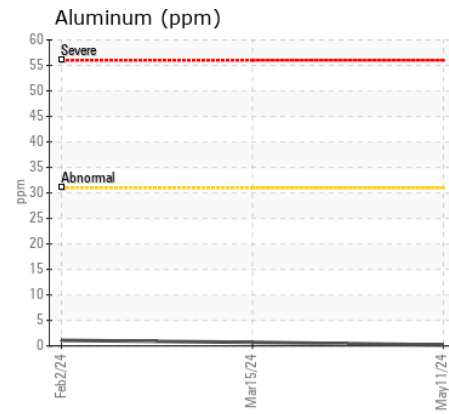
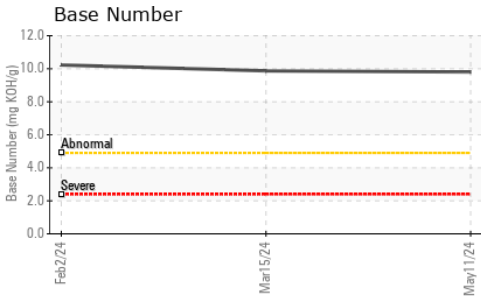
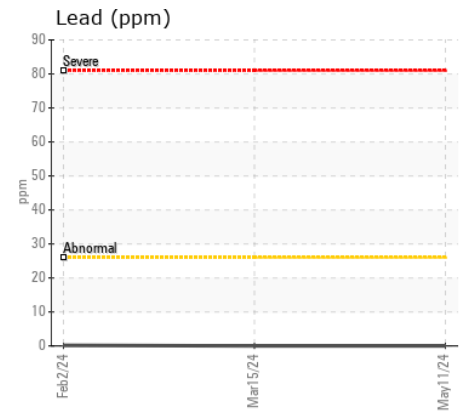
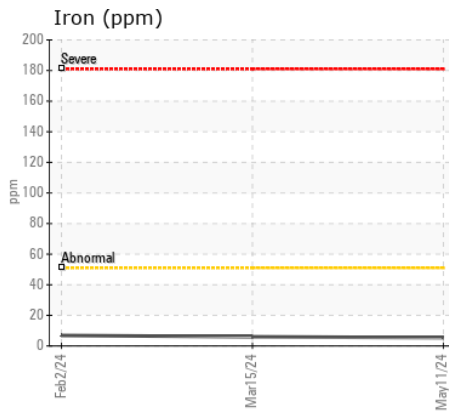
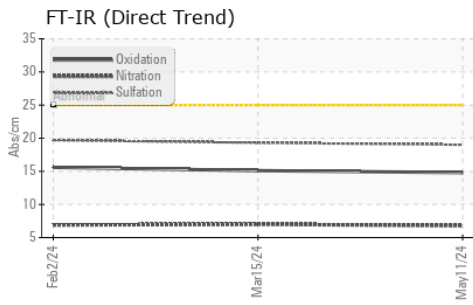
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	2	1	3
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.8	7.0	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.0	19.3	19.7
Emulsified Water	scalar	Visual*	>0.21	NEG	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	<1
Boron	ppm	ASTM D5185(m)		1	<1	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		61	61	60
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		975	987	992
Calcium	ppm	ASTM D5185(m)		1048	1052	1082
Phosphorus	ppm	ASTM D5185(m)		1015	1018	1054
Zinc	ppm	ASTM D5185(m)		1178	1215	1201
Sulfur	ppm	ASTM D5185(m)		2643	2670	2896
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	15.1	15.6
Base Number (BN)	mg KOH/g	ASTM D2896*		9.80	9.87	10.23
Visc @ 100°C	cSt	ASTM D7279(m)		12.7	12.7	12.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0894245 **Received** : 07 Jun 2024
Lab Number : 02640421 **Tested** : 10 Jun 2024
Unique Number : 5789583 **Diagnosed** : 10 Jun 2024 - Kevin Marson
Test Package : MOB 2

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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.