MOB II

WEAR CHECK

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.

WEAR

All component wear rates are normal.

CONTAMINATION

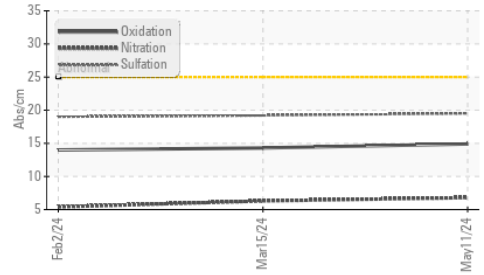
There is no indication of any contamination in the oil.

FLUID CONDITION

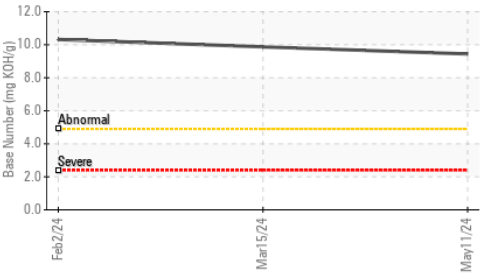
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0894244	WC0894283	WC0894249
Sample Date		Client Info		11 May 2024	15 Mar 2024	02 Feb 2024
Machine Age	hrs	Client Info		4490	3660	2980
Oil Age	hrs	Client Info		830	680	255
Filter Age	hrs	Client Info		190	280	255
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>51	8	9	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
Silicon	ppm	ASTM D5185(m)	>22	2	3	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<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	0.1	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	6.8	6.3	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	19.2	19.0
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>118	2	<1	1
Boron	ppm	ASTM D5185(m)		<1	1	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		62	62	61
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		967	993	1004
Calcium	ppm	ASTM D5185(m)		1067	1055	1069
Phosphorus	ppm	ASTM D5185(m)		1004	1013	1051
Zinc	ppm	ASTM D5185(m)		1200	1215	1202
Sulfur	ppm	ASTM D5185(m)		2586	2655	2914
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9	14.3	14.0
Base Number (BN)	mg KOH/g	ASTM D2896*		9.44	9.87	10.32
Visc @ 100°C	cSt	ASTM D7279(m)		13.0	13.1	13.1

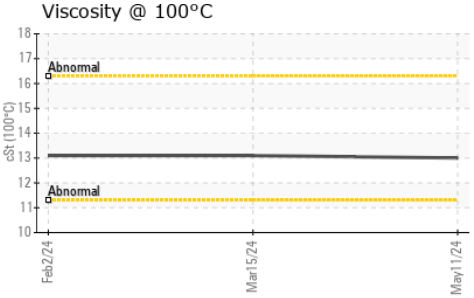
FT-IR (Direct Trend)



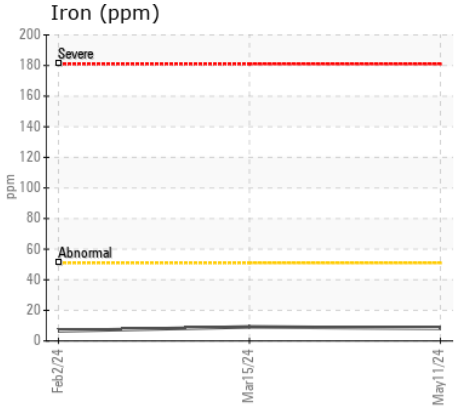
Base Number



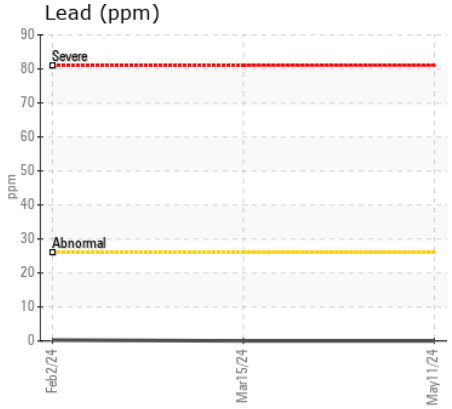
Viscosity @ 100°C



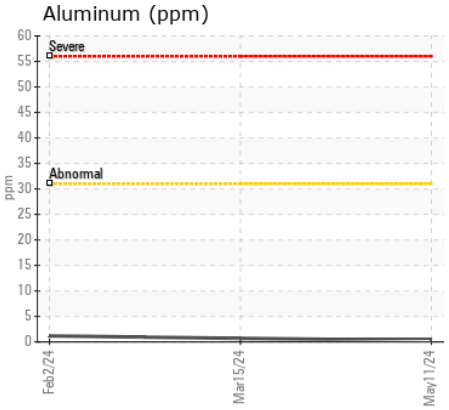
Iron (ppm)



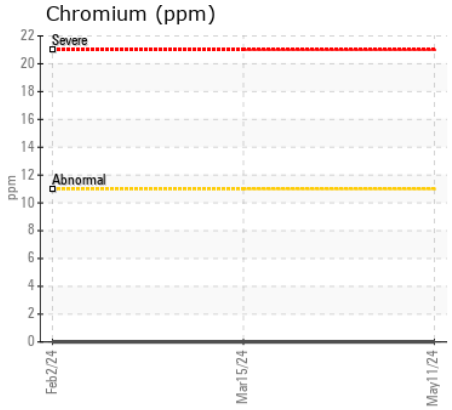
Lead (ppm)



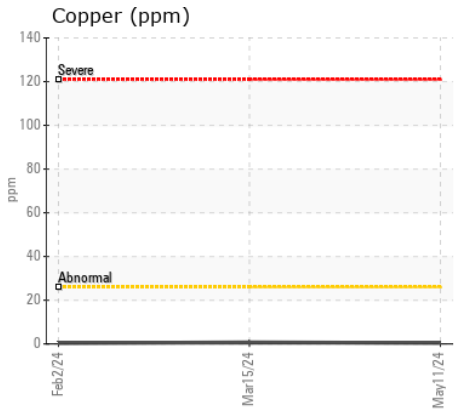
Aluminum (ppm)



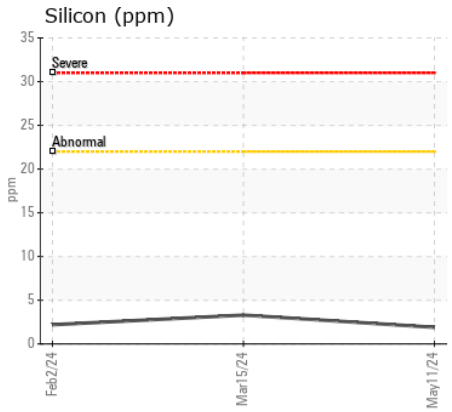
Chromium (ppm)



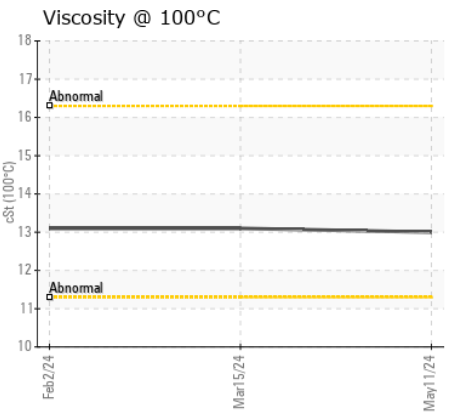
Copper (ppm)



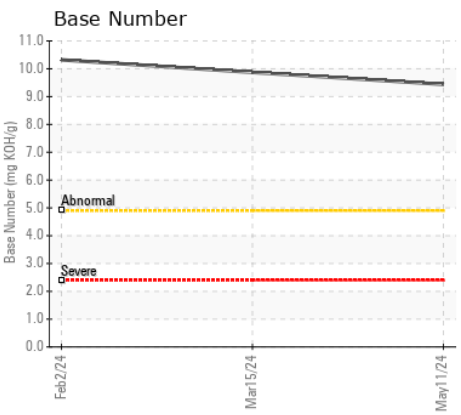
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0894244 **Received** : 07 Jun 2024
Lab Number : 02640427 **Tested** : 10 Jun 2024
Unique Number : 5789589 **Diagnosed** : 10 Jun 2024 - Kevin Marson
Test Package : MOB 2

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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