



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
ghi.ya
Machine Id

Component
JOHN DEERE Feed Generator (S/N PE4045N026883)

Fluid
Diesel Engine

MOBIL 15W40 (30 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0894241	WC0894276	WC0894255
Sample Date		Client Info		27 May 2024	17 Mar 2024	06 Feb 2024
Machine Age	hrs	Client Info		3610	2910	2475
Oil Age	hrs	Client Info		700	435	340
Filter Age	hrs	Client Info		190	16	340
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Copper ppm levels are abnormal. Bearing wear is indicated.

Iron	ppm	ASTM D5185(m)	>51	12	11	10
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<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	2	1
Lead	ppm	ASTM D5185(m)	>26	0	0	<1
Copper	ppm	ASTM D5185(m)	>26	▲ 30	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.

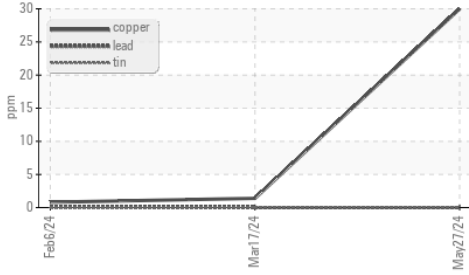
Silicon	ppm	ASTM D5185(m)	>22	4	4	4
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.2	0.8	0.6
Nitration	Abs/cm	ASTM D7624*	>20	9.6	8.8	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	19.5	20.1
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

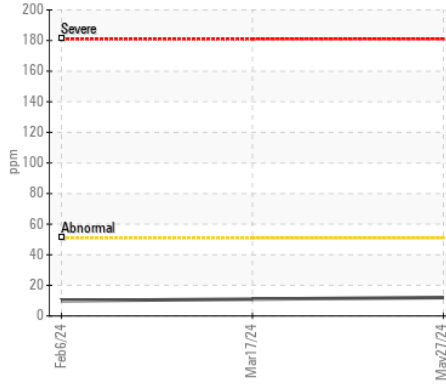
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)	>118	4	1	<1
Boron	ppm	ASTM D5185(m)		19	12	2
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		66	85	62
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		37	205	949
Calcium	ppm	ASTM D5185(m)		2063	1886	1119
Phosphorus	ppm	ASTM D5185(m)		977	976	1014
Zinc	ppm	ASTM D5185(m)		1168	1175	1181
Sulfur	ppm	ASTM D5185(m)		2793	2855	2770
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.5	13.6	14.2
Base Number (BN)	mg KOH/g	ASTM D2896*		7.09	9.67	9.81
Visc @ 100°C	cSt	ASTM D7279(m)		14.6	14.3	13.5

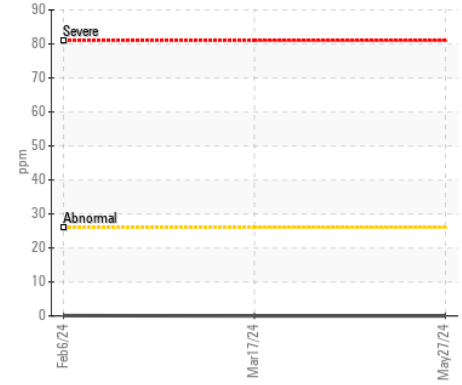
▲ Non-ferrous Metals



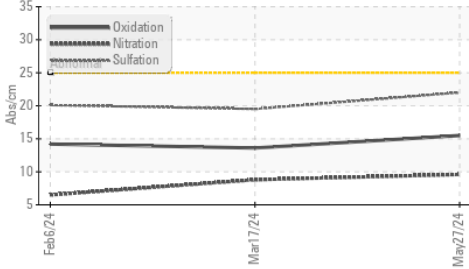
Iron (ppm)



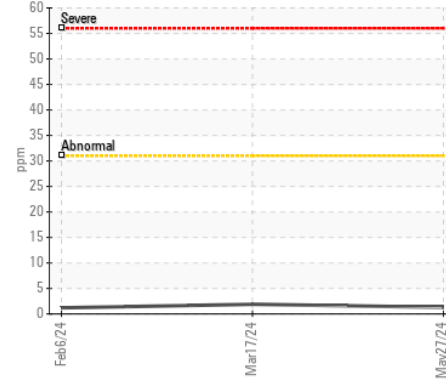
Lead (ppm)



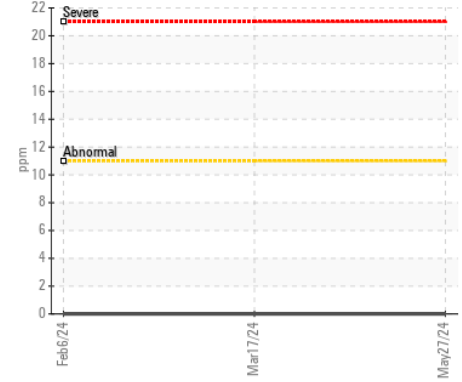
FT-IR (Direct Trend)



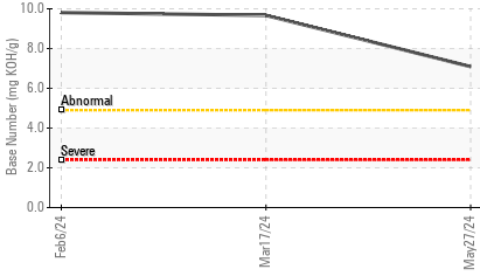
Aluminum (ppm)



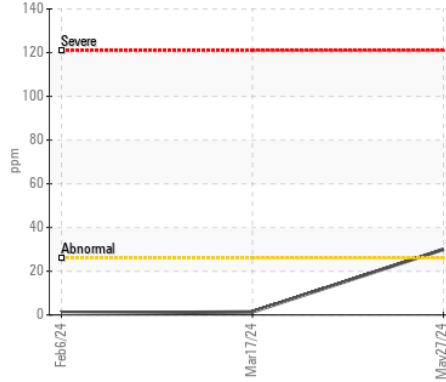
Chromium (ppm)



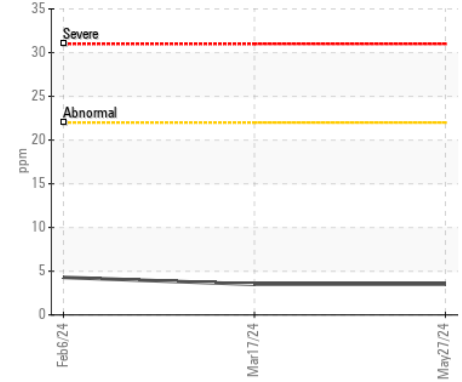
Base Number



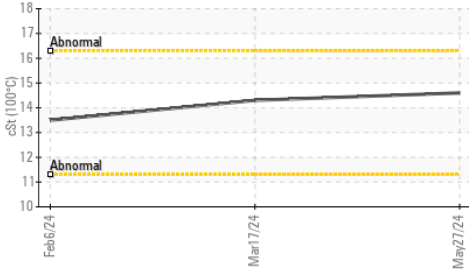
▲ Copper (ppm)



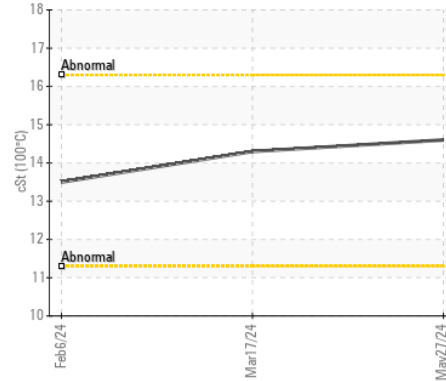
Silicon (ppm)



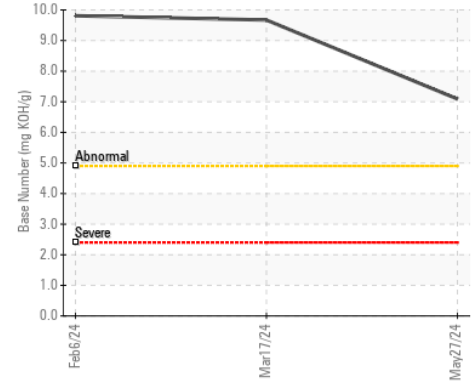
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



ISO 17025:2017
Accredited
Laboratory

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

Sample No. : WC0894241

Lab Number : 02640425

Unique Number : 5789587

Test Package : MOB 2

Received : 07 Jun 2024

Tested : 10 Jun 2024

Diagnosed : 10 Jun 2024 - Kevin Marson

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.

T:

F: