MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Doyle
Machine Id
JOHN DEERE John Deere feed generator (S/N PE6068N015799)
Component
Diesel Engine
Fluid
MOBIL DELVAC 1 5W40 (30 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

WEAR

Copper ppm levels are abnormal. Bearing wear is indicated.

CONTAMINATION

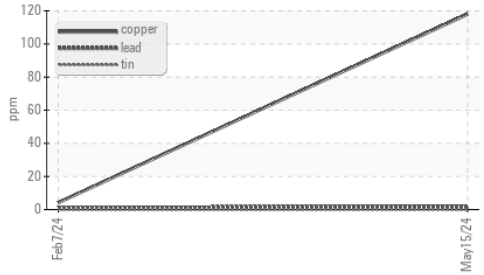
There is no indication of any contamination in the oil.

FLUID CONDITION

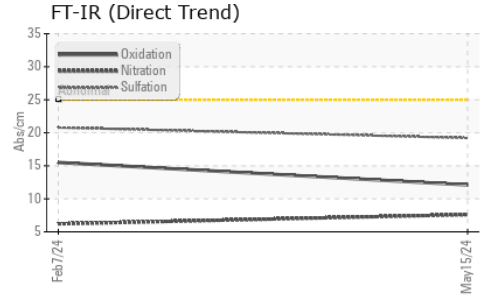
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0894262**	WC0894284	---
Sample Date		Client Info		**15 May 2024**	07 Feb 2024	---
Machine Age	hrs	Client Info		**865**	85	---
Oil Age	hrs	Client Info		**780**	85	---
Filter Age	hrs	Client Info		**170**	85	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	NORMAL	---
Iron	ppm	ASTM D5185(m)	>51	**19**	8	---
Chromium	ppm	ASTM D5185(m)	>11	**<1**	0	---
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**<1**	0	---
Silver	ppm	ASTM D5185(m)	>3	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>31	**<1**	5	---
Lead	ppm	ASTM D5185(m)	>26	**2**	1	---
Copper	ppm	ASTM D5185(m)	>26	▲ **118**	4	---
Tin	ppm	ASTM D5185(m)	>4	**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Silicon	ppm	ASTM D5185(m)	>22	**15**	24	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	1	---
Fuel		WC Method	>2.1	**<1.0**	0.7	---
Water		WC Method	>0.21	**NEG**	NEG	---
Glycol		WC Method		**NEG**	NEG	---
Soot %	%	ASTM D7844*	>3	**0.5**	0	---
Nitration	Abs/cm	ASTM D7624*	>20	**7.6**	6.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.2**	20.8	---
Emulsified Water	scalar	Visual*	>0.21	**NEG**	NEG	---
Sodium	ppm	ASTM D5185(m)	>31	**2**	2	---
Boron	ppm	ASTM D5185(m)	291	**23**	255	---
Barium	ppm	ASTM D5185(m)	0.0	**<1**	<1	---
Molybdenum	ppm	ASTM D5185(m)	8.0	**44**	254	---
Manganese	ppm	ASTM D5185(m)		**<1**	<1	---
Magnesium	ppm	ASTM D5185(m)	624	**304**	786	---
Calcium	ppm	ASTM D5185(m)	2158	**1988**	1426	---
Phosphorus	ppm	ASTM D5185(m)	1132	**916**	908	---
Zinc	ppm	ASTM D5185(m)	1300	**1071**	985	---
Sulfur	ppm	ASTM D5185(m)	3616	**2838**	2773	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	**12.1**	15.5	---
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	**8.23**	10.65	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	**13.1**	9.4	---

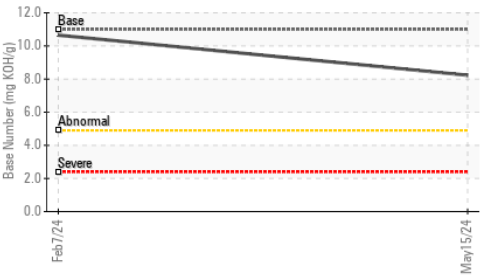
Non-ferrous Metals



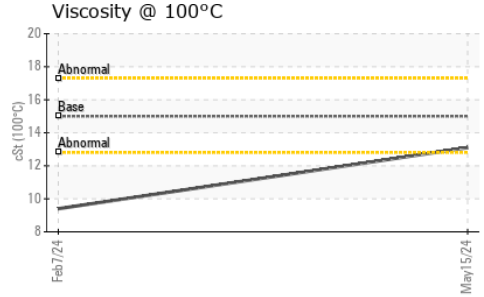
FT-IR (Direct Trend)



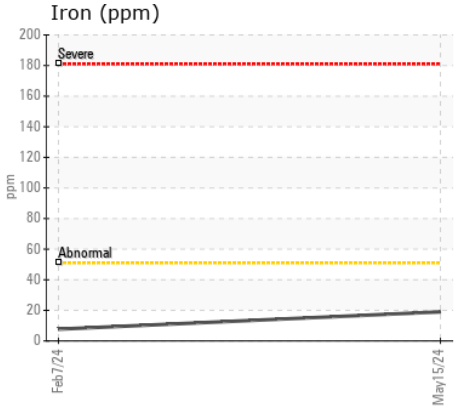
Base Number



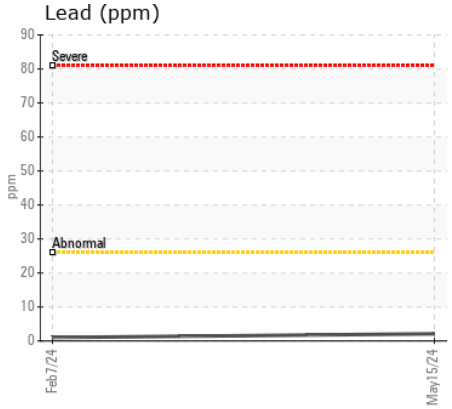
Viscosity @ 100°C



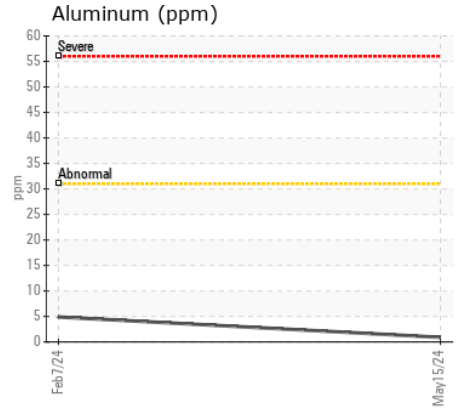
Iron (ppm)



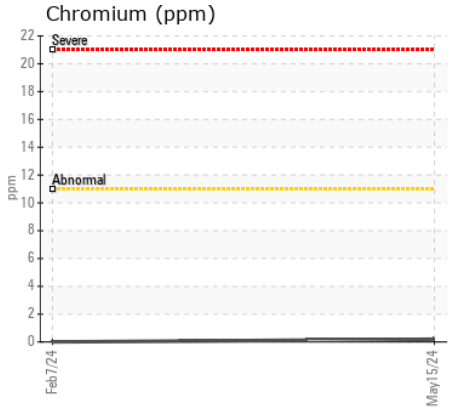
Lead (ppm)



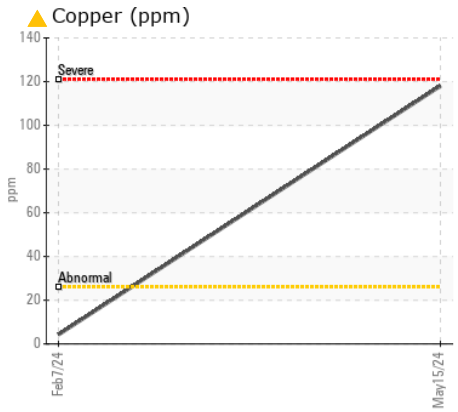
Aluminum (ppm)



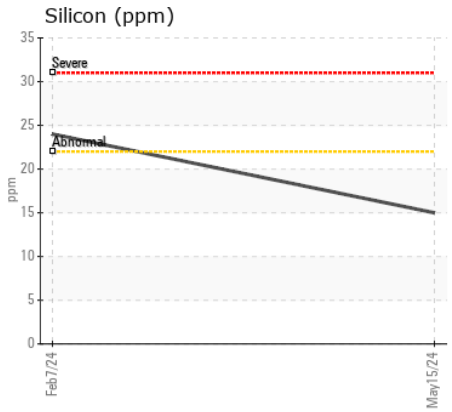
Chromium (ppm)



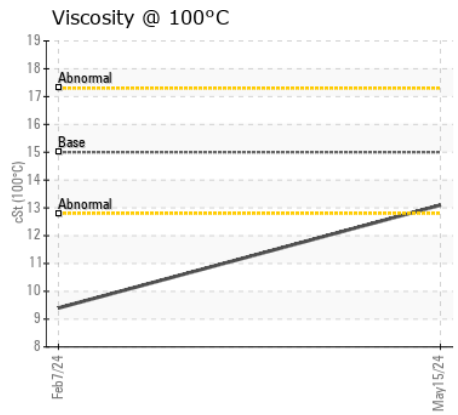
Copper (ppm)



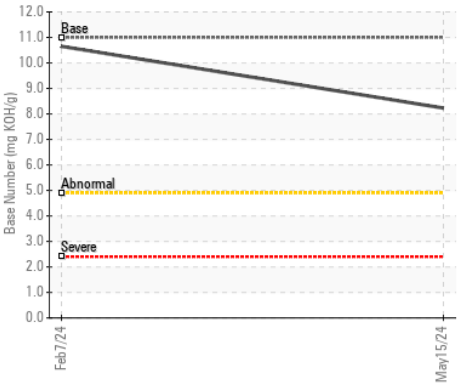
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0894262
Lab Number : 02640417
Unique Number : 5789579
Test Package : MOB 2

Received : 07 Jun 2024
Tested : 11 Jun 2024
Diagnosed : 11 Jun 2024 - Kevin Marson

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.

Mowi Canada West
7200 Coho Road
Port Hardy, BC
CA V0N 2P0
Contact: Brian Dalton
brian.dalton@mowi.com
T:
F: