MOB II

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
operations
Machine Id
JOHN DEERE John Deere (S/N PE4045N012968)
Component
Diesel Engine
Fluid
MOBIL DELVAC 1 5W40 (30 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

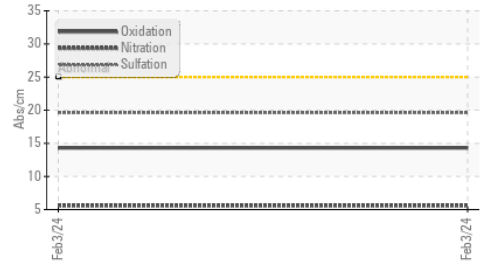
There is no indication of any contamination in the oil.

FLUID CONDITION

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 condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0894252	---	---
Sample Date		Client Info		03 Feb 2024	---	---
Machine Age	hrs	Client Info		29615	---	---
Oil Age	hrs	Client Info		290	---	---
Filter Age	hrs	Client Info		290	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---
Iron	ppm	ASTM D5185(m)	>51	7	---	---
Chromium	ppm	ASTM D5185(m)	>11	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>31	1	---	---
Lead	ppm	ASTM D5185(m)	>26	4	---	---
Copper	ppm	ASTM D5185(m)	>26	<1	---	---
Tin	ppm	ASTM D5185(m)	>4	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>22	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>2.1	<1.0	---	---
Water		WC Method	>0.21	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0.2	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.6	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	---	---
Emulsified Water	scalar	Visual*	>0.21	NEG	---	---
Sodium	ppm	ASTM D5185(m)	>31	<1	---	---
Boron	ppm	ASTM D5185(m)	291	<1	---	---
Barium	ppm	ASTM D5185(m)	0.0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	8.0	60	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	624	1002	---	---
Calcium	ppm	ASTM D5185(m)	2158	1072	---	---
Phosphorus	ppm	ASTM D5185(m)	1132	1020	---	---
Zinc	ppm	ASTM D5185(m)	1300	1181	---	---
Sulfur	ppm	ASTM D5185(m)	3616	2805	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	11.0	10.36	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.4	---	---

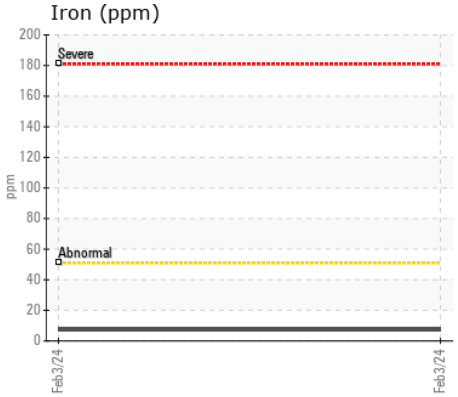
FT-IR (Direct Trend)



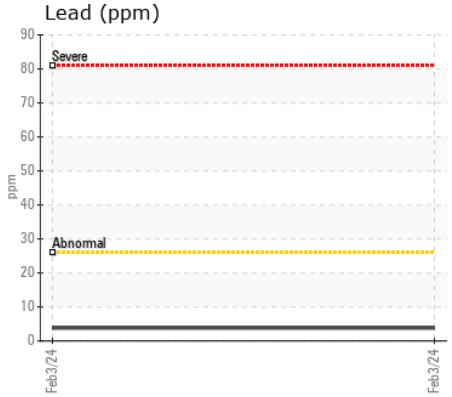
Base Number

Viscosity @ 100°C

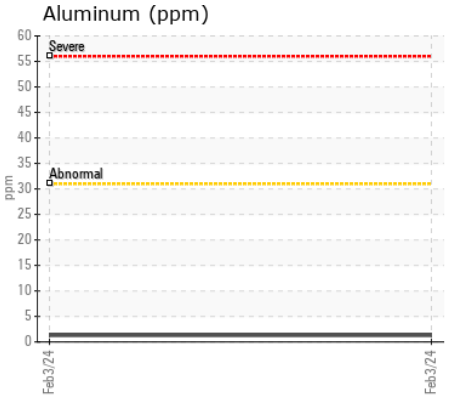
Iron (ppm)



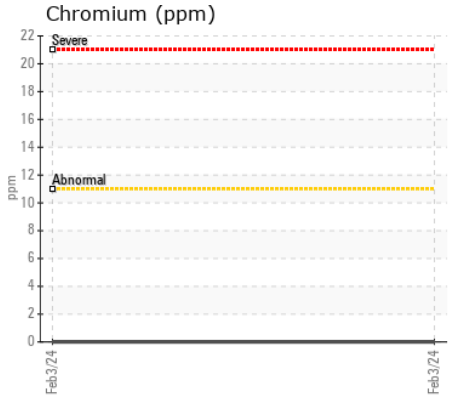
Lead (ppm)



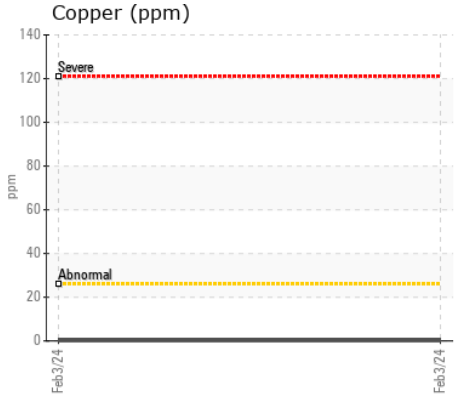
Aluminum (ppm)



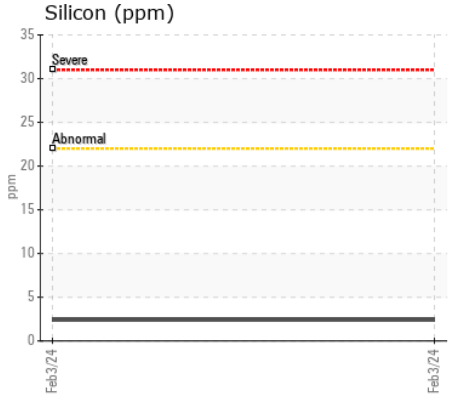
Chromium (ppm)



Copper (ppm)

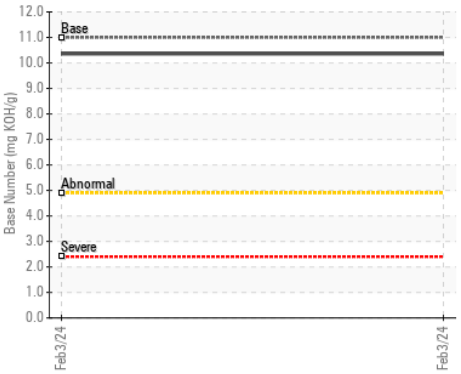


Silicon (ppm)



Viscosity @ 100°C

Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0894252	**Received**	: 26 Feb 2024
Lab Number	: 02617996	**Tested**	: 27 Feb 2024
Unique Number	: 5735106	**Diagnosed**	: 28 Feb 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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