



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 38-20
 Component
Rear Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0067890	PC0075735	---
Sample Date		Client Info		07 Feb 2024	20 Jun 2023	---
Machine Age	hrs	Client Info		5265	4343	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	9	7	---
Chromium	ppm	ASTM D5185(m)	>11	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>31	1	<1	---
Lead	ppm	ASTM D5185(m)	>26	<1	0	---
Copper	ppm	ASTM D5185(m)	>26	2	1	---
Tin	ppm	ASTM D5185(m)	>4	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

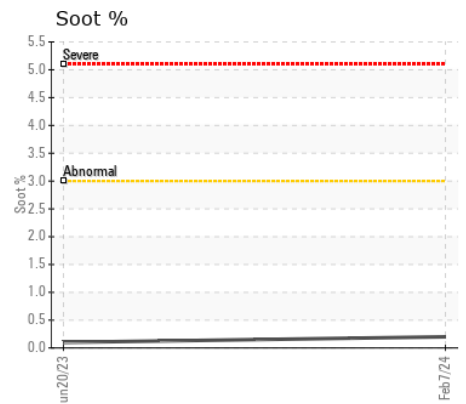
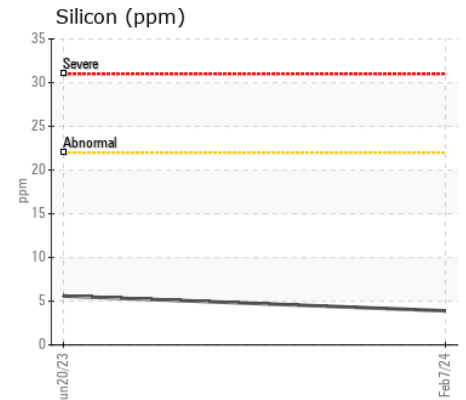
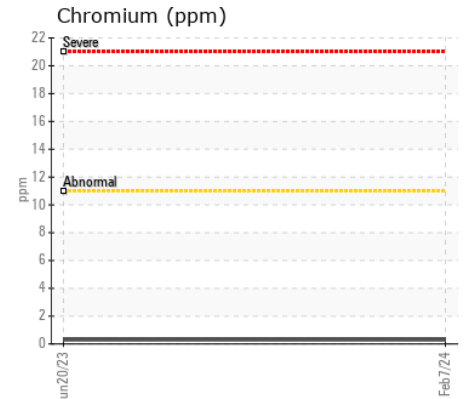
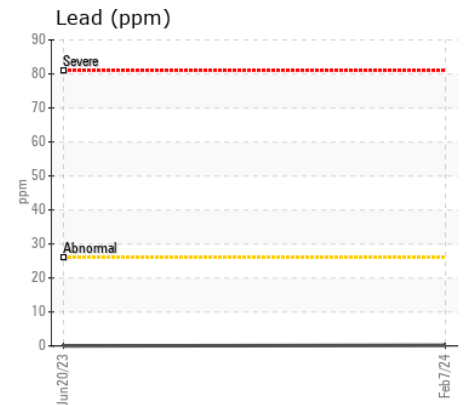
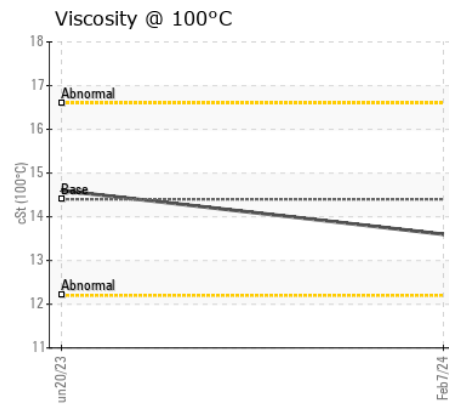
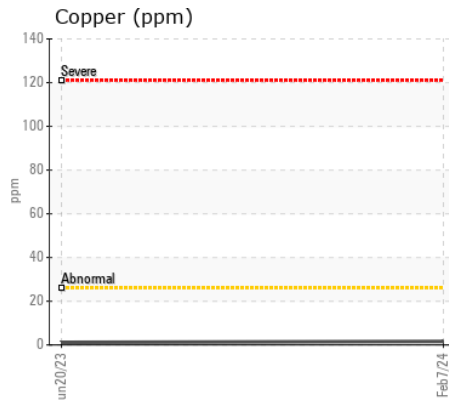
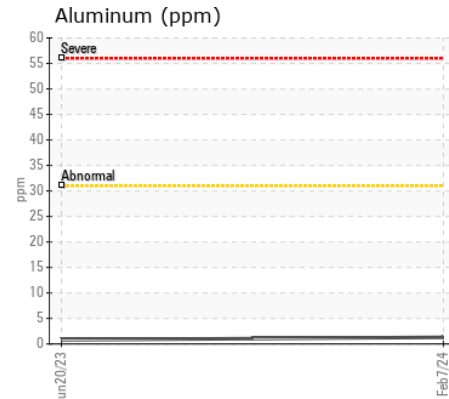
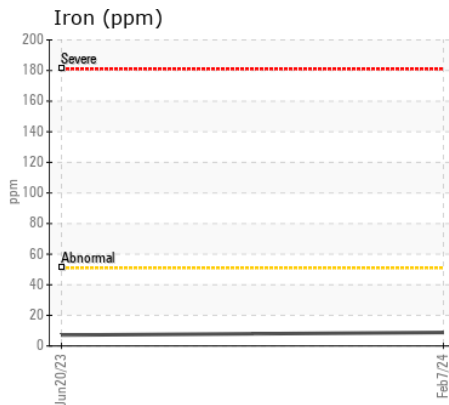
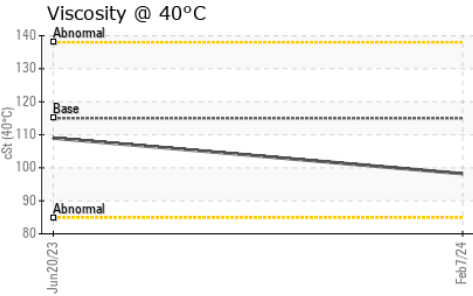
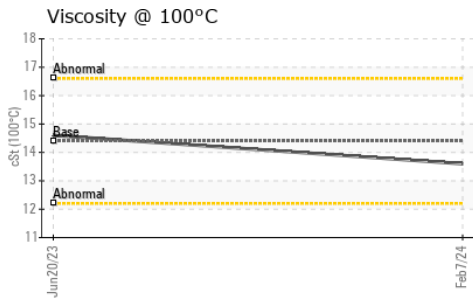
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	4	6	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.2	0.1	---
Nitration	Abs/cm	ASTM D7624*	>20	6.6	6.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	19.0	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	2	2	---
Boron	ppm	ASTM D5185(m)	250	2	27	---
Barium	ppm	ASTM D5185(m)	10	0	0	---
Molybdenum	ppm	ASTM D5185(m)	100	59	58	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	450	939	839	---
Calcium	ppm	ASTM D5185(m)	3000	1048	1192	---
Phosphorus	ppm	ASTM D5185(m)	1150	999	1039	---
Zinc	ppm	ASTM D5185(m)	1350	1159	1159	---
Sulfur	ppm	ASTM D5185(m)	4250	2685	2644	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.2	14.1	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	98.2	109	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.6	14.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	138	137	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0067890 **Received** : 20 Feb 2024
Lab Number : 02616604 **Tested** : 20 Feb 2024
Unique Number : 5733714 **Diagnosed** : 20 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

TRUCK AND EQUIPMENT SOLUTION
 2 BERTRAM INDUSTRIAL PKWY.
 MIDHURST, ON
 CA L9X 1L2
 Contact: John Irwin
 jirwin@arnottgroup.com
 T: (705)792-7620
 F: (705)725-5425

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.