



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SHEDIAC SEWERAGE [6100246557]

Machine Id
JOHN DEERE TO4045T891105

Component
Diesel Engine

Fluid
CASTROL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0020819	WA0015668	---
Sample Date		Client Info		08 Jan 2024	09 Oct 2020	---
Machine Age	hrs	Client Info		667	543	---
Oil Age	hrs	Client Info		52	16	---
Filter Age	hrs	Client Info		52	16	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	3	2	---
Chromium	ppm	ASTM D5185(m)	>11	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>31	1	<1	---
Lead	ppm	ASTM D5185(m)	>26	0	<1	---
Copper	ppm	ASTM D5185(m)	>26	<1	<1	---
Tin	ppm	ASTM D5185(m)	>4	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

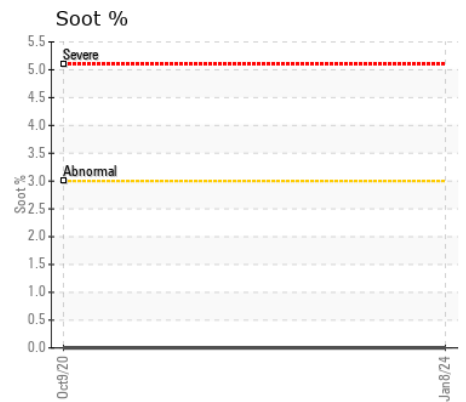
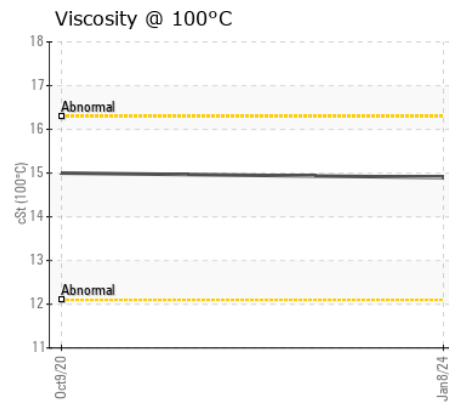
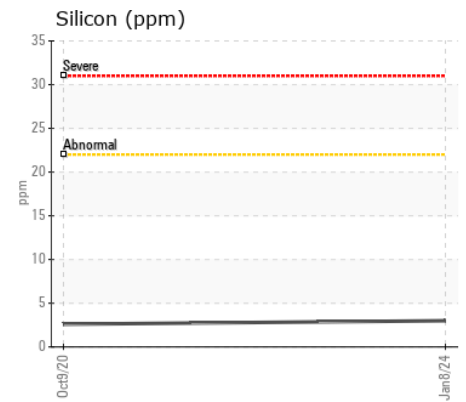
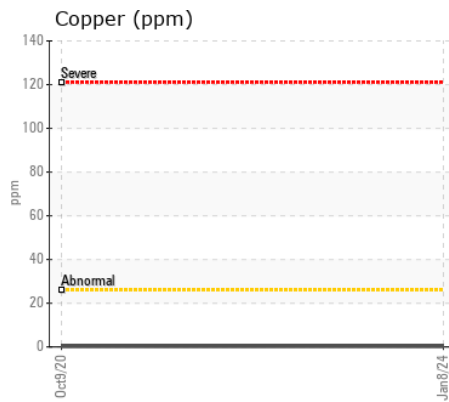
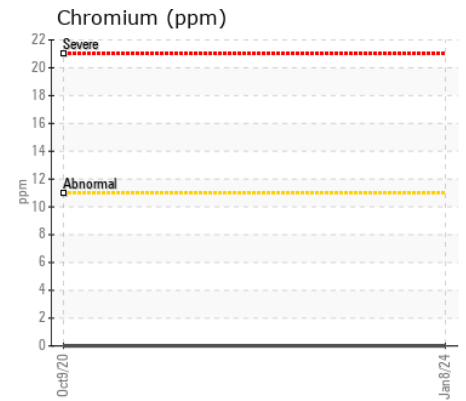
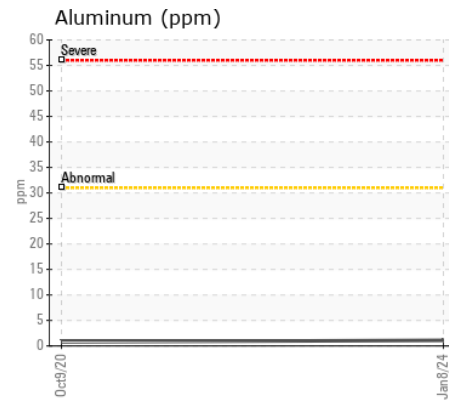
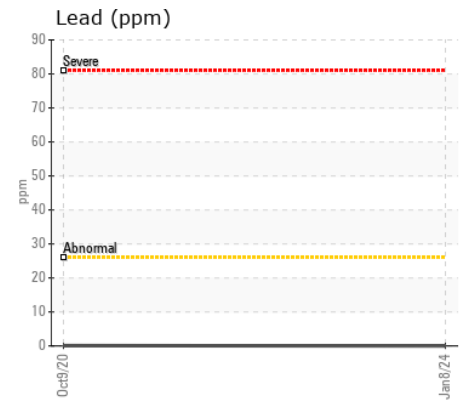
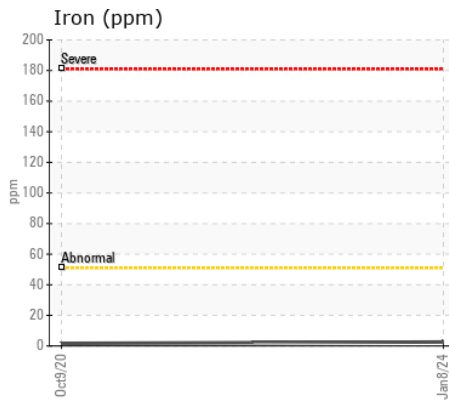
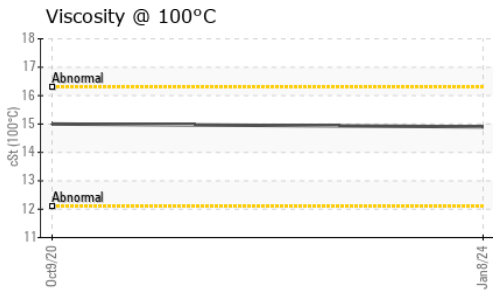
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	3	3	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
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	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.0	4.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	19.1	---
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)	>406	1	2	---
Boron	ppm	ASTM D5185(m)		6	<1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		58	57	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		893	982	---
Calcium	ppm	ASTM D5185(m)		1075	1055	---
Phosphorus	ppm	ASTM D5185(m)		989	1042	---
Zinc	ppm	ASTM D5185(m)		1116	1259	---
Sulfur	ppm	ASTM D5185(m)		2675	2817	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	13.9	---
Visc @ 100°C	cSt	ASTM D7279(m)		14.9	15.0	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020819 **Received** : 16 Jan 2024
Lab Number : 02608917 **Diagnosed** : 16 Jan 2024
Unique Number : 5710003 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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.