



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GREATER SHEDIAC SEWERAGE [6100246557]

Machine Id
JOHN DEERE PE4045T250024

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		WA0020817	WA0018390	WA0015669
Sample Date		Client Info		11 Jan 2024	10 Nov 2022	14 Oct 2020
Machine Age	hrs	Client Info		1043	981	870
Oil Age	hrs	Client Info		62	67	54
Filter Age	hrs	Client Info		62	67	54
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

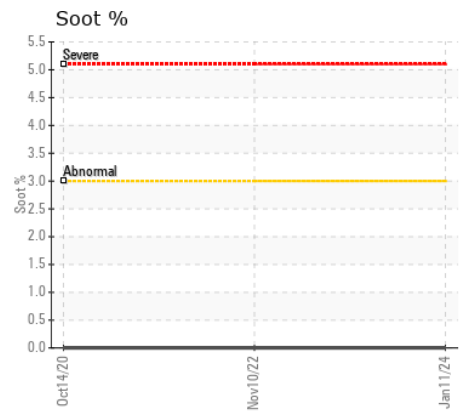
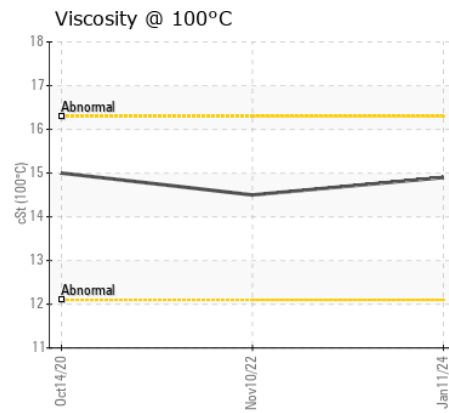
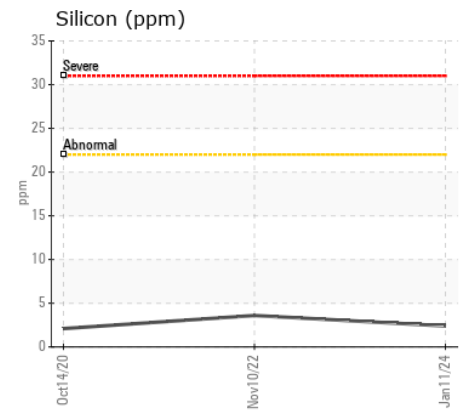
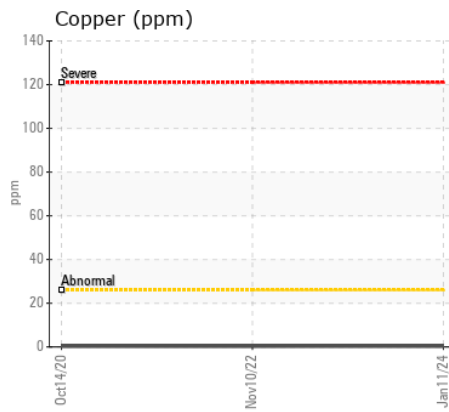
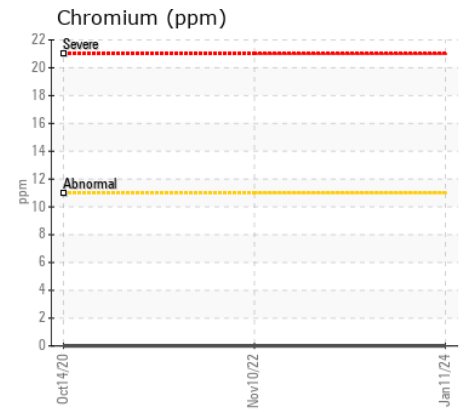
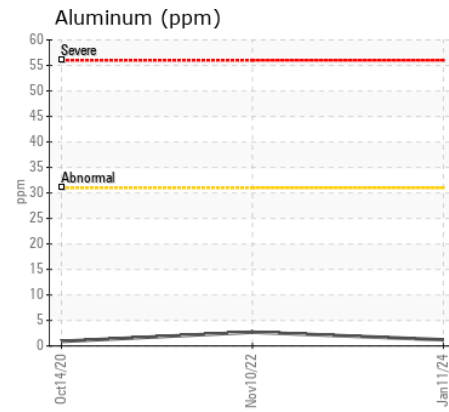
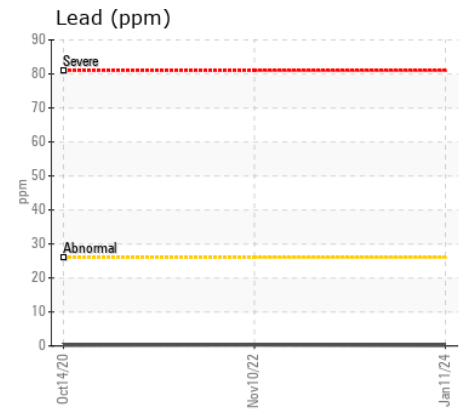
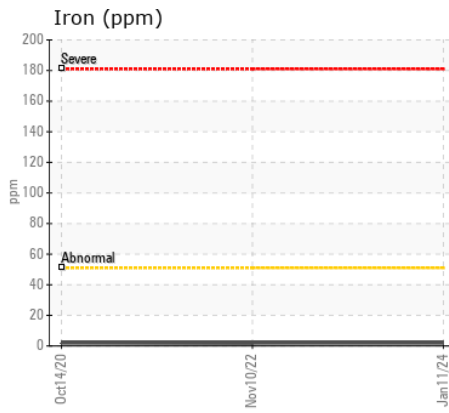
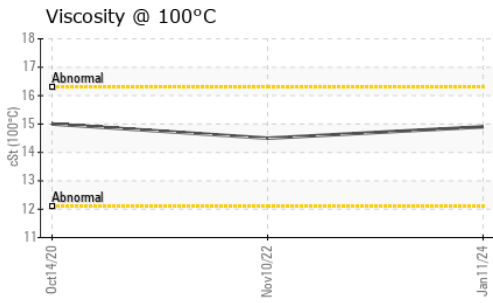
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	2	4	2
Potassium	ppm	ASTM D5185(m)	>20	0	<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	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.2	7.8	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	17.6	18.9
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>406	1	3	2
Boron	ppm	ASTM D5185(m)		6	63	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		60	80	58
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		898	23	990
Calcium	ppm	ASTM D5185(m)		1104	2258	1082
Phosphorus	ppm	ASTM D5185(m)		1000	1062	1048
Zinc	ppm	ASTM D5185(m)		1134	1143	1279
Sulfur	ppm	ASTM D5185(m)		2718	3232	2817
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.7	12.9	14.3
Visc @ 100°C	cSt	ASTM D7279(m)		14.9	14.5	15.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020817 **Received** : 16 Jan 2024
Lab Number : 02608919 **Diagnosed** : 16 Jan 2024
Unique Number : 5710005 **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.