



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
COOP IGA BOUCTOUCHE [6100309753]

Machine Id
JOHN DEERE PE4045N000687

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		WA0021176	WA0020066	WA0018398
Sample Date		Client Info		02 Jul 2024	05 Jul 2023	26 Jul 2022
Machine Age	hrs	Client Info		346	324	300
Oil Age	hrs	Client Info		22	24	29
Filter Age	hrs	Client Info		22	24	29
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

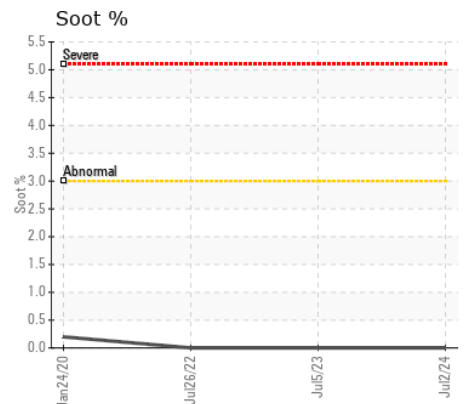
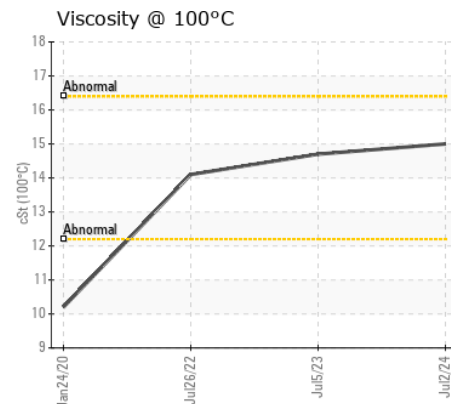
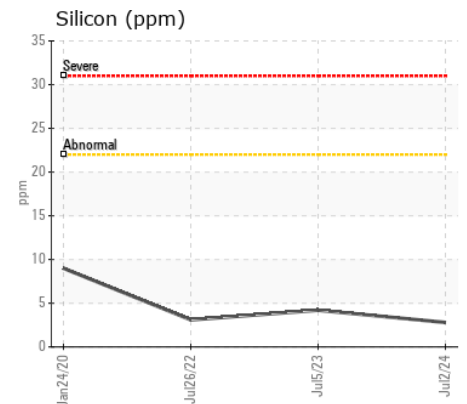
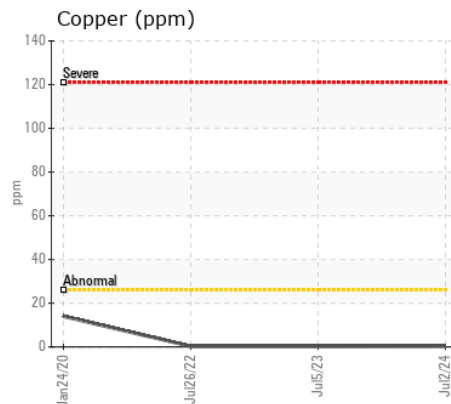
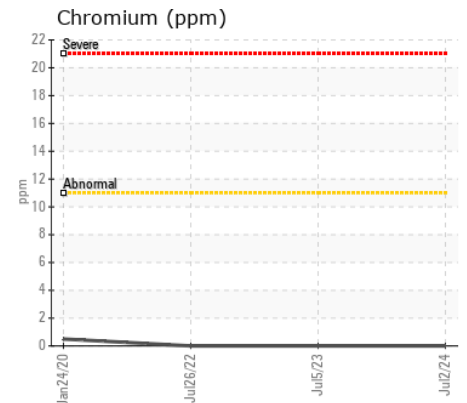
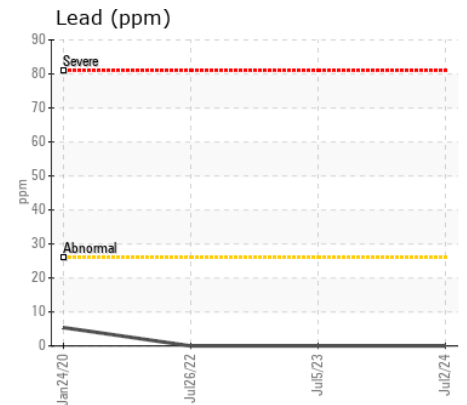
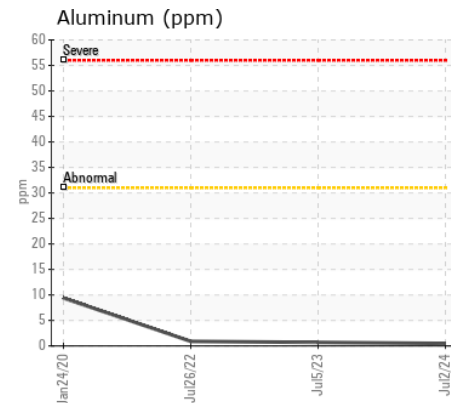
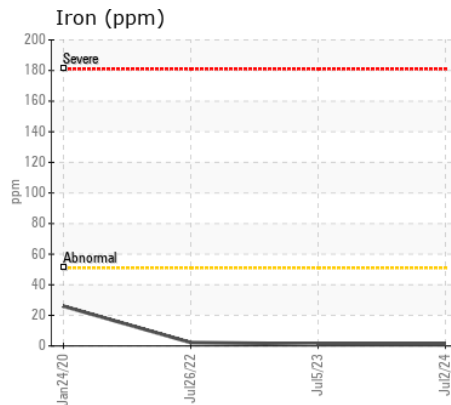
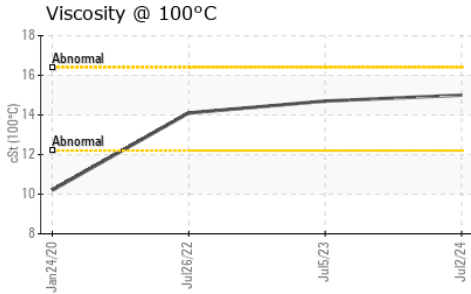
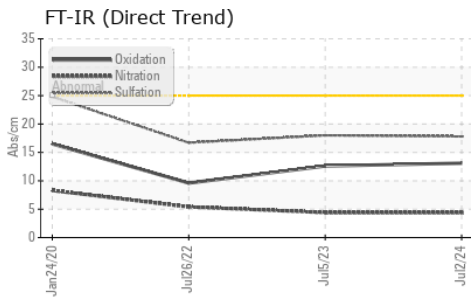
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	3	4	3
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	4.4	4.4	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	18.0	16.7
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	1	2
Boron	ppm	ASTM D5185(m)		5	6	6
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		57	54	2
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		918	917	16
Calcium	ppm	ASTM D5185(m)		1002	1077	2351
Phosphorus	ppm	ASTM D5185(m)		964	1064	888
Zinc	ppm	ASTM D5185(m)		1133	1153	1013
Sulfur	ppm	ASTM D5185(m)		2489	2642	3116
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.1	12.6	9.6
Visc @ 100°C	cSt	ASTM D7279(m)		15.0	14.7	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021176 **Received** : 05 Jul 2024
Lab Number : 02645837 **Tested** : 05 Jul 2024
Unique Number : 5803376 **Diagnosed** : 05 Jul 2024 - 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.