



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 222-1605
 Component
Rear Differential
 Fluid
PETRO CANADA DURATRAN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084904	PC0071398	PC0042785
Sample Date		Client Info		04 Jan 2024	09 Feb 2023	12 Jan 2021
Machine Age	hrs	Client Info		11747	10185	6889
Oil Age	hrs	Client Info		1500	1600	1668
Filter Age	hrs	Client Info		1500	1600	1668
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)	>500	11	10	10
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>25	7	11	9
Copper	ppm	ASTM D5185(m)	>100	4	5	5
Tin	ppm	ASTM D5185(m)	>10	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

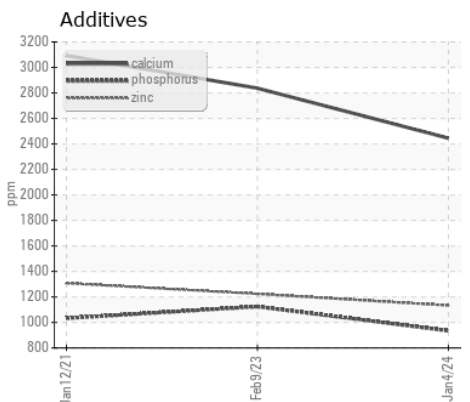
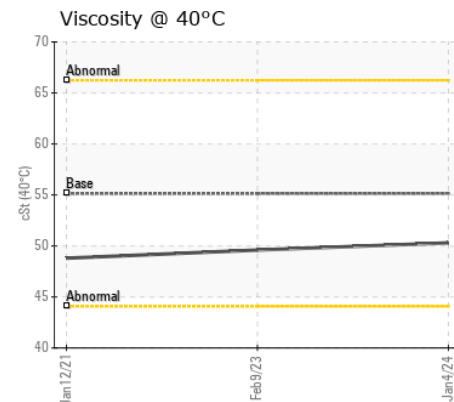
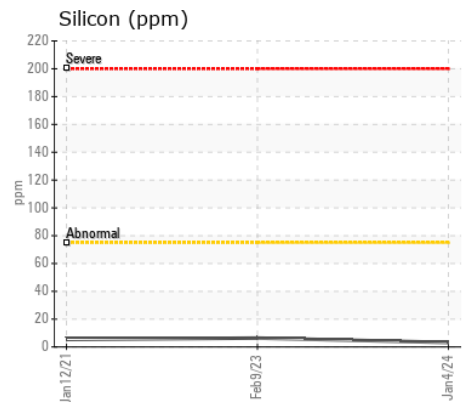
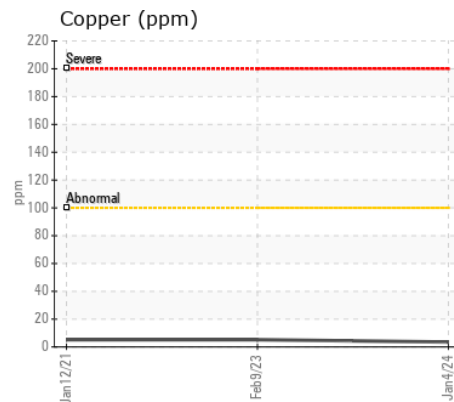
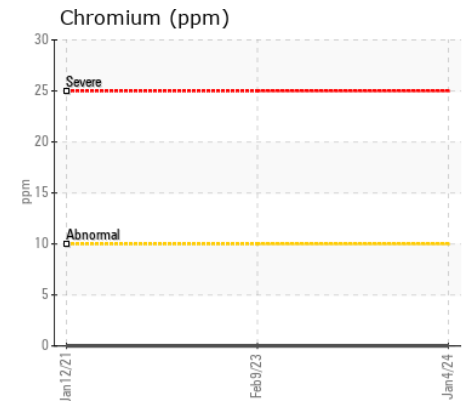
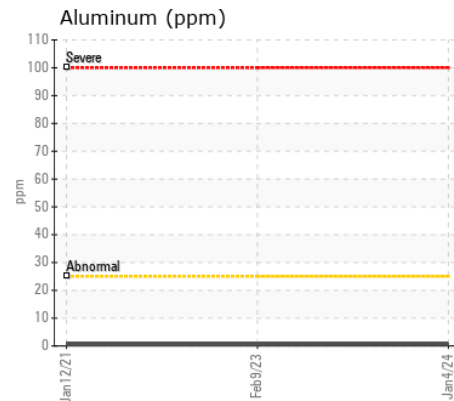
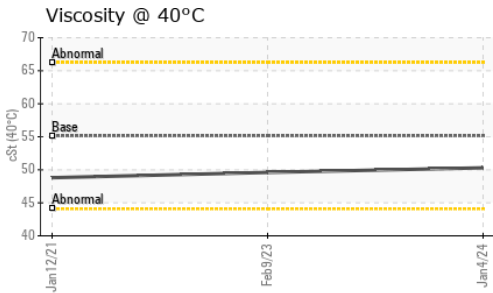
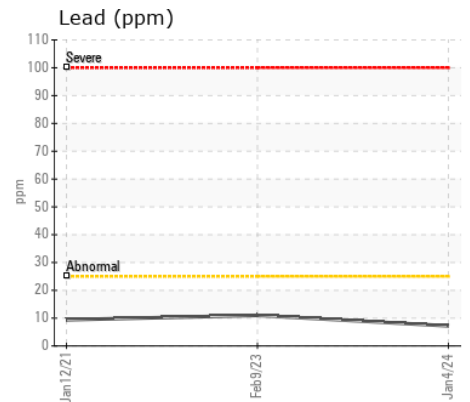
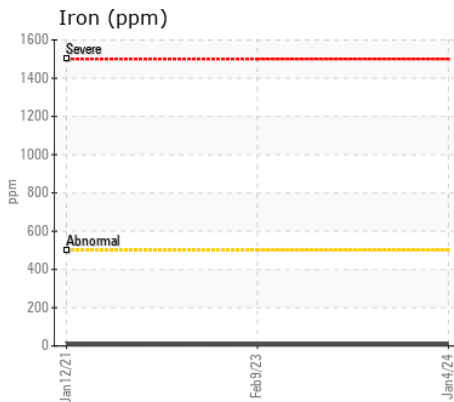
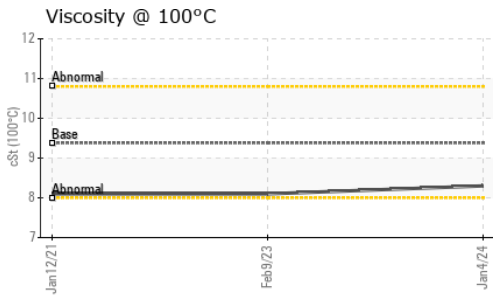
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	3	6	5
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	LIGHT	VLITE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		1	5	6
Boron	ppm	ASTM D5185(m)	110	35	78	78
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.0	1	3	<1
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	13	26	55	18
Calcium	ppm	ASTM D5185(m)	3610	2445	2837	3093
Phosphorus	ppm	ASTM D5185(m)	1192	935	1124	1033
Zinc	ppm	ASTM D5185(m)	1455	1133	1224	1308
Sulfur	ppm	ASTM D5185(m)	2641	2852	2800	3075
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	50.3	49.6	48.8
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	8.3	8.1	8.1
Viscosity Index (VI)	Scale	ASTM D2270*	153	138	134	138



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084904 **Received** : 08 Jan 2024
Lab Number : 02607210 **Diagnosed** : 09 Jan 2024
Unique Number : 5708296 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV100, VI)

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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