



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 844K Series II 19052
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0872172	WC0872161	---
Sample Date		Client Info		27 Feb 2024	22 Feb 2024	---
Machine Age	hrs	Client Info		8050	8050	---
Oil Age	hrs	Client Info		1781	1781	---
Filter Age	hrs	Client Info		1781	1781	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>71	9	9	---
Chromium	ppm	ASTM D5185(m)	>11	4	4	---
Nickel	ppm	ASTM D5185(m)	>6	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>11	1	1	---
Lead	ppm	ASTM D5185(m)	>13	<1	0	---
Copper	ppm	ASTM D5185(m)	>21	2	2	---
Tin	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

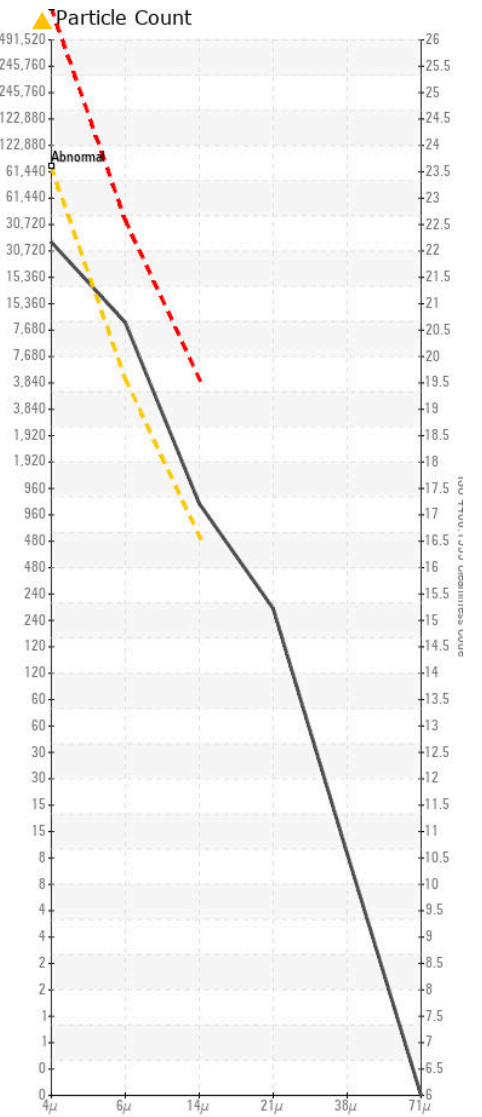
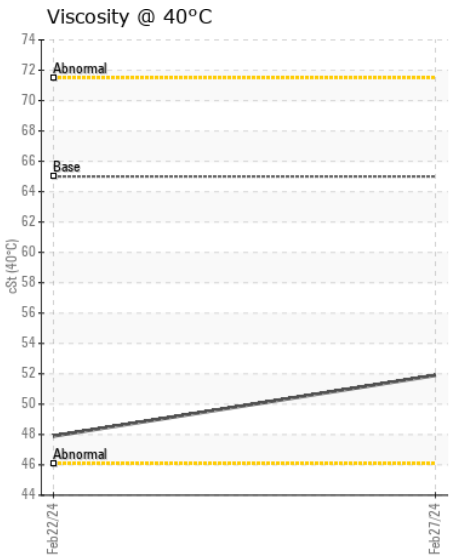
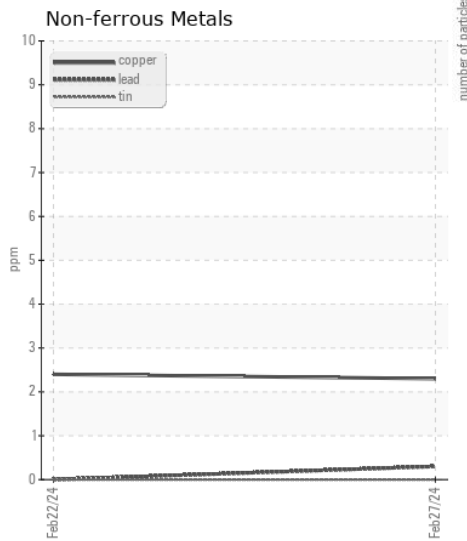
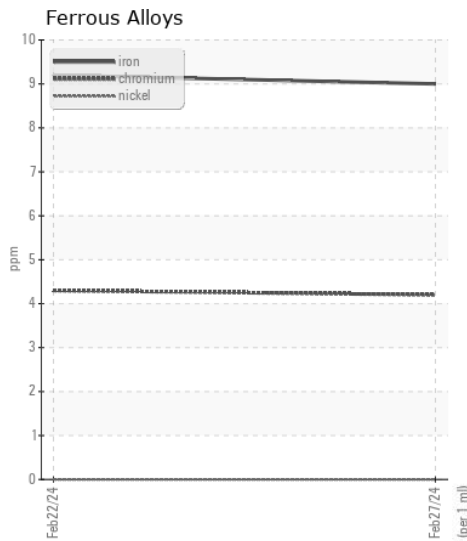
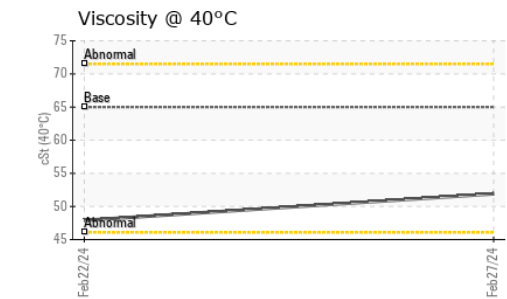
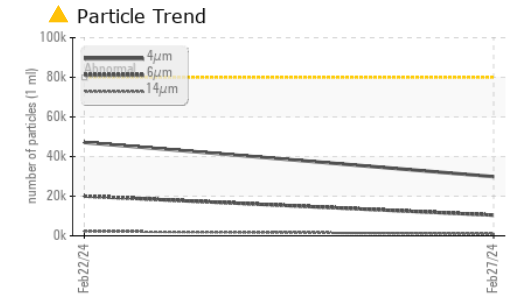
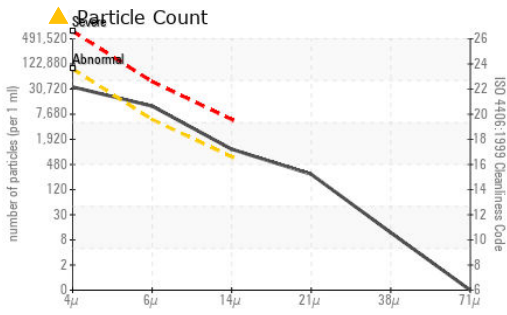
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>24	2	2	---
Potassium	ppm	ASTM D5185(m)	>20	1	2	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	29850	47130	---
Particles >6µm		ASTM D7647	>5000	▲ 10439	▲ 20039	---
Particles >14µm		ASTM D7647	>640	● 976	▲ 2239	---
Particles >21µm		ASTM D7647	>160	● 247	▲ 498	---
Particles >38µm		ASTM D7647	>40	10	9	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	▲ 22/21/17	▲ 23/22/18	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.075	NEG	NEG	---

FLUID CONDITION

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)	>21	3	3	---
Boron	ppm	ASTM D5185(m)		<1	<1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		3	3	---
Calcium	ppm	ASTM D5185(m)	87	86	88	---
Phosphorus	ppm	ASTM D5185(m)	727	645	666	---
Zinc	ppm	ASTM D5185(m)	900	789	808	---
Sulfur	ppm	ASTM D5185(m)	1500	1495	1573	---
Visc @ 40°C	cSt	ASTM D7279(m)	65	51.9	47.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0872172
Lab Number : 02618716
Unique Number : 5735826
Test Package : MOB 2
Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Wes Davis

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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.