



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[THELME MOONING]

Machine Id

JOHN DEERE 5100E 1LV5100ETXY440458

Component

Hydraulic System

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**RECOMMENDATION**

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196752	JR0120560	---
Sample Date		Client Info		19 Feb 2024	26 May 2022	---
Machine Age	hrs	Client Info		935	761	---
Oil Age	hrs	Client Info		562	199	---
Filter Age	hrs	Client Info		562	199	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ 49	27	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>10	3	2	---
Lead	ppm	ASTM D5185m	>10	2	2	---
Copper	ppm	ASTM D5185m	>75	60	41	---
Tin	ppm	ASTM D5185m	>10	1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	LIGHT	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

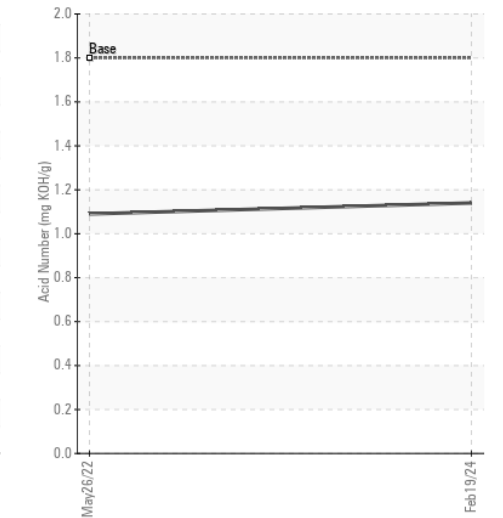
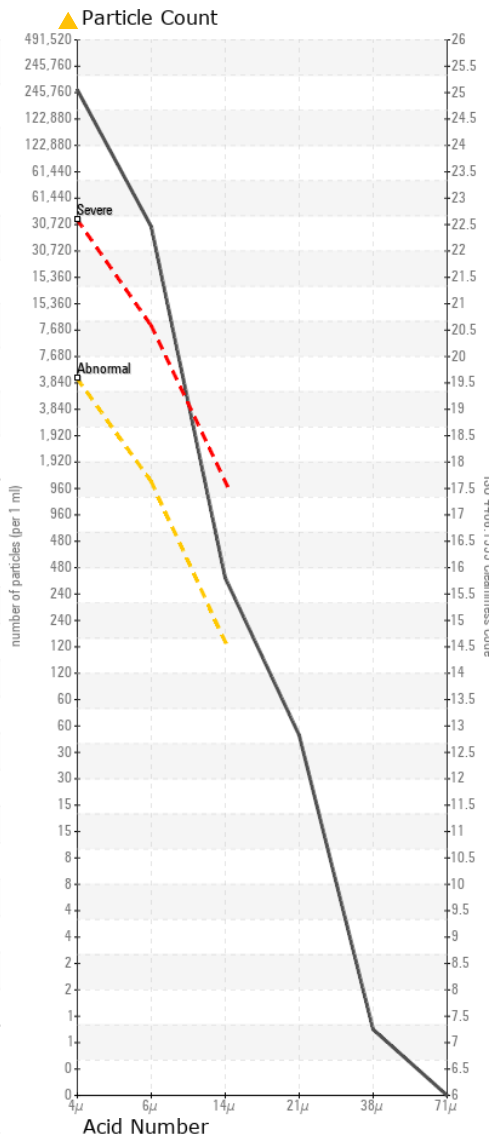
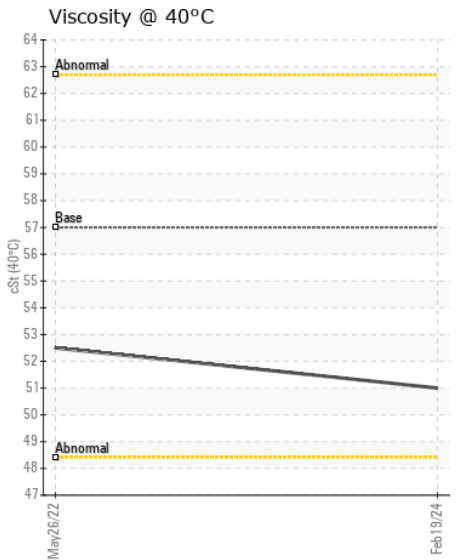
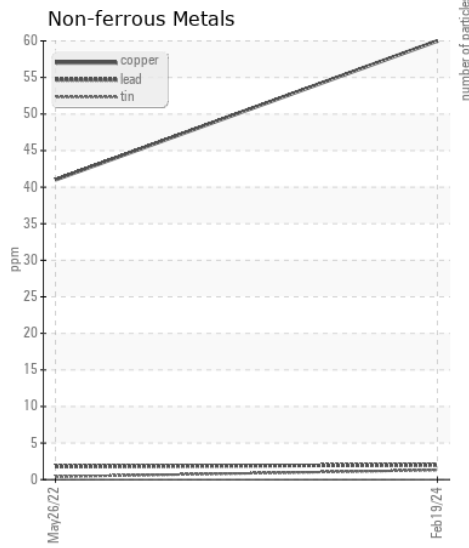
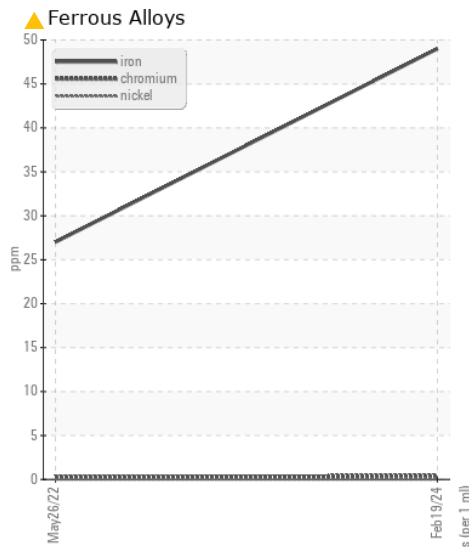
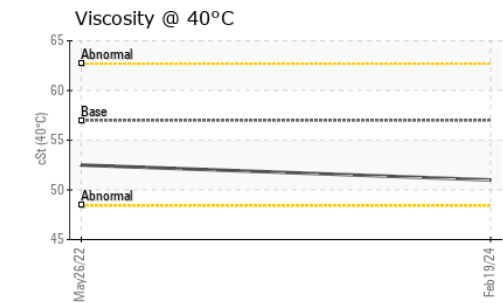
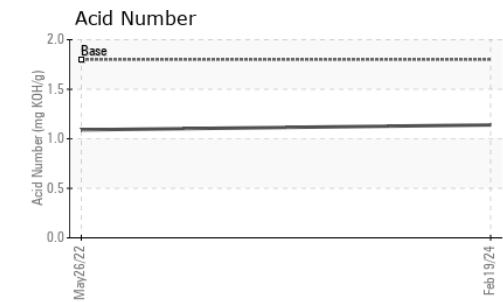
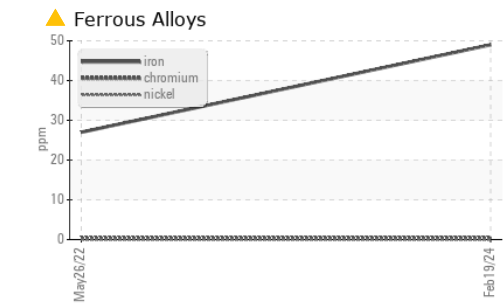
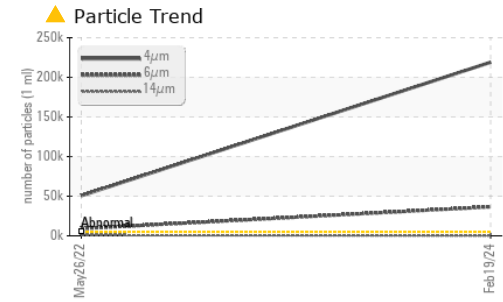
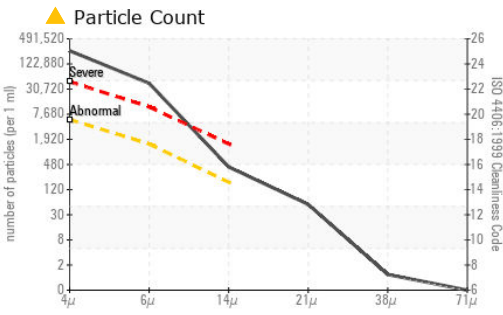
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	7	5	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 219040	▲ 50600	---
Particles >6µm		ASTM D7647	>1300	▲ 36542	▲ 9129	---
Particles >14µm		ASTM D7647	>160	▲ 369	▲ 782	---
Particles >21µm		ASTM D7647	>40	▲ 47	▲ 221	---
Particles >38µm		ASTM D7647	>10	1	▲ 14	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 25/22/16	▲ 23/20/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		5	4	---
Boron	ppm	ASTM D5185m	6	5	0	---
Barium	ppm	ASTM D5185m	0	0	<1	---
Molybdenum	ppm	ASTM D5185m	0	0	<1	---
Manganese	ppm	ASTM D5185m		2	1	---
Magnesium	ppm	ASTM D5185m	145	103	100	---
Calcium	ppm	ASTM D5185m	3570	3219	3378	---
Phosphorus	ppm	ASTM D5185m	1290	995	970	---
Zinc	ppm	ASTM D5185m	1640	1196	1219	---
Sulfur	ppm	ASTM D5185m		3389	4169	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.14	1.09	---
Visc @ 40°C	cSt	ASTM D445	57.0	51.0	52.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196752 **Received** : 28 Feb 2024
Lab Number : 06102870 **Tested** : 29 Feb 2024
Unique Number : 10901100 **Diagnosed** : 29 Feb 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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