



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Store 3 - Norton
Machine Id
JOHN DEERE 250G 1FF250GXKNF612004
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: CHECK FOR WATER/CONTAMINATION)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049653	LEC0045106	---
Sample Date		Client Info		08 Jul 2024	26 Oct 2023	---
Machine Age	hrs	Client Info		482	461	---
Oil Age	hrs	Client Info		482	461	---
Filter Age	hrs	Client Info		482	461	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	15	9	---
Iron	ppm	ASTM D5185m	>32	4	2	---
Chromium	ppm	ASTM D5185m	>9	<1	0	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>9	2	1	---
Lead	ppm	ASTM D5185m	>28	<1	<1	---
Copper	ppm	ASTM D5185m	>50	4	3	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

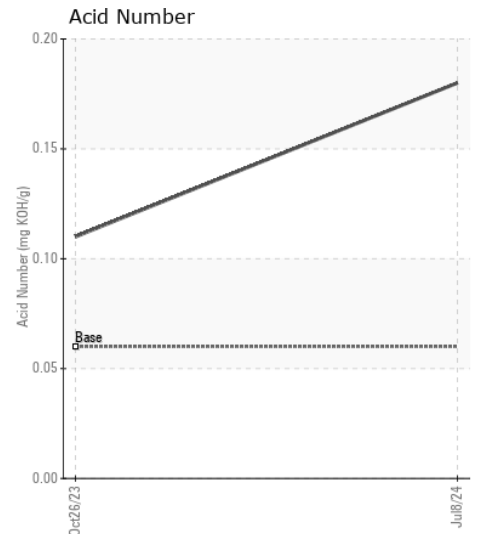
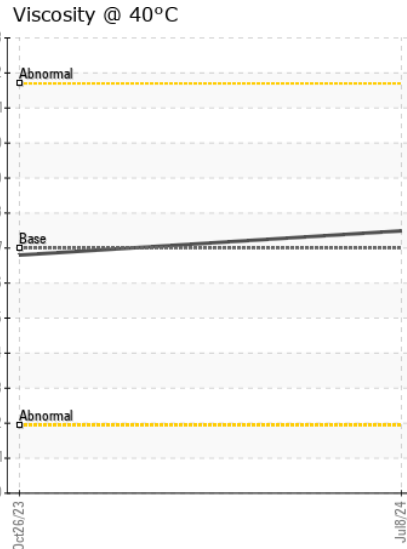
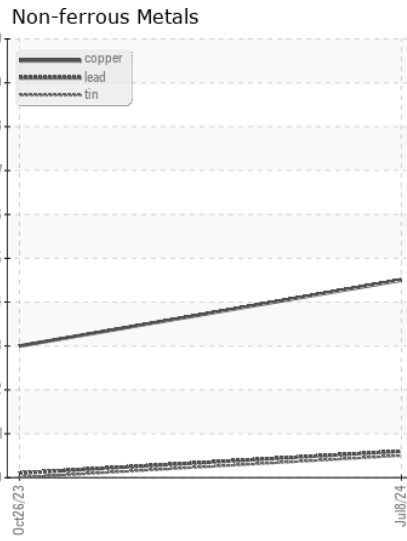
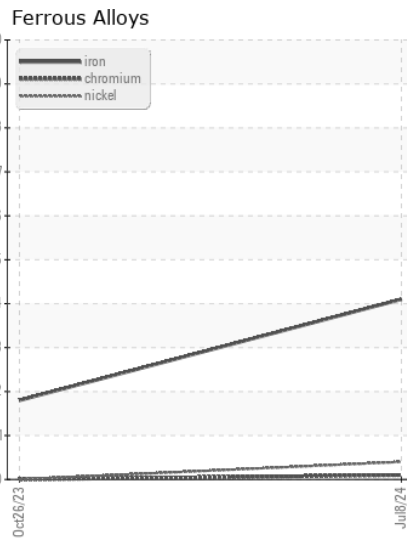
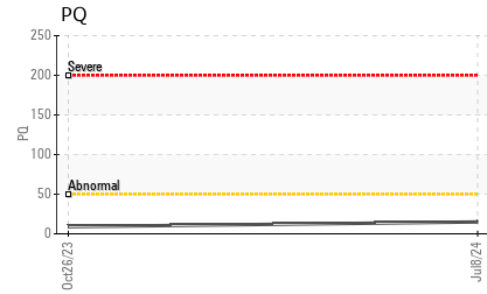
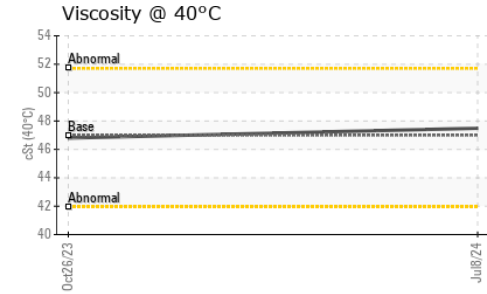
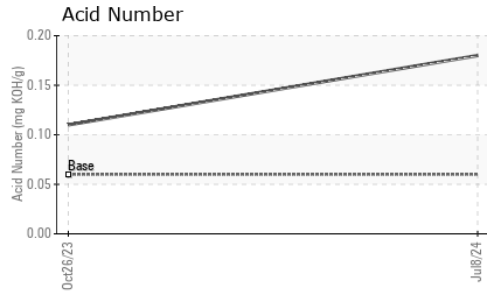
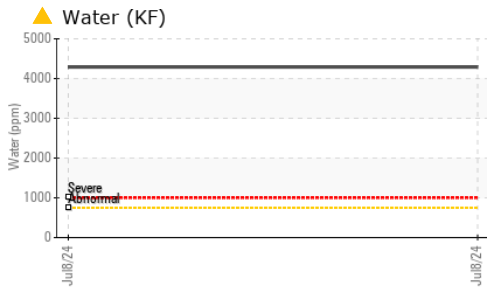
Appearance is hazy. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>11	1	1	---
Potassium	ppm	ASTM D5185m	>20	6	4	---
Water	%	ASTM D6304	>0.075	▲ 0.429	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 4290	---	---
Particles >4µm		ASTM D7647	>80000	---	18152	---
Particles >6µm		ASTM D7647	>20000	---	688	---
Particles >14µm		ASTM D7647	>640	---	15	---
Particles >21µm		ASTM D7647	>160	---	5	---
Particles >38µm		ASTM D7647	>40	---	0	---
Particles >71µm		ASTM D7647	>10	---	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	---	21/17/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● HAZY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	▲ 0.2%	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m	>21	1	0	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		<1	<1	---
Calcium	ppm	ASTM D5185m		4	4	---
Phosphorus	ppm	ASTM D5185m	827	465	527	---
Zinc	ppm	ASTM D5185m	0	34	30	---
Sulfur	ppm	ASTM D5185m	13	63	20	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.18	0.11	---
Visc @ 40°C	cSt	ASTM D445	47	47.49	46.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049653 **Received** : 10 Jul 2024
Lab Number : 06232742 **Tested** : 10 Jul 2024
Unique Number : 11116235 **Diagnosed** : 10 Jul 2024 - Doug Bogart
Test Package : CONST (Additional Tests: KF, 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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