



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



Area
Store 2 - Beaver [RO#146800]
Machine Id
JOHN DEERE 450D FF450DX913485
Component
Right Propel Gearbox
Fluid
JOHN DEERE HY-GARD HYD/TRANS (3 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046810	LEC0022293	---
Sample Date		Client Info		05 Jan 2024	15 Jul 2021	---
Machine Age	hrs	Client Info		12393	11375	---
Oil Age	hrs	Client Info		1018	340	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	SEVERE	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		213	181	---
Iron	ppm	ASTM D5185m	>1250	554	▲ 1586	---
Chromium	ppm	ASTM D5185m	>10	12	▲ 25	---
Nickel	ppm	ASTM D5185m	>10	2	2	---
Titanium	ppm	ASTM D5185m		3	8	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		▲ 53	▲ 129	---
Lead	ppm	ASTM D5185m		2	<1	---
Copper	ppm	ASTM D5185m		23	3	---
Tin	ppm	ASTM D5185m		<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

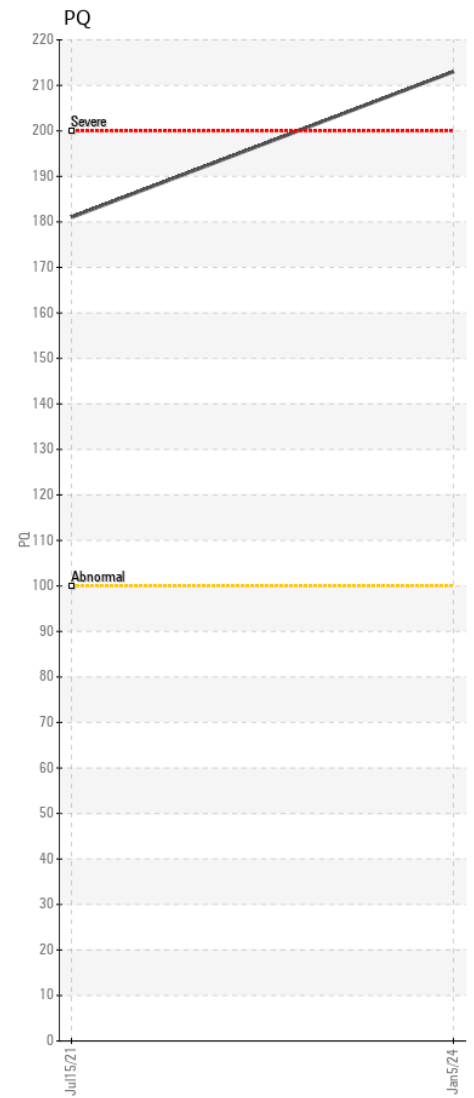
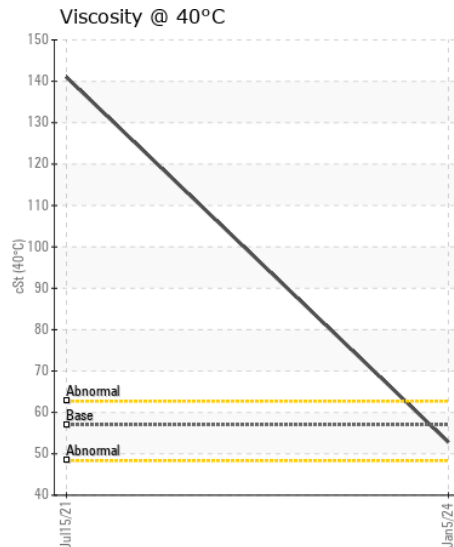
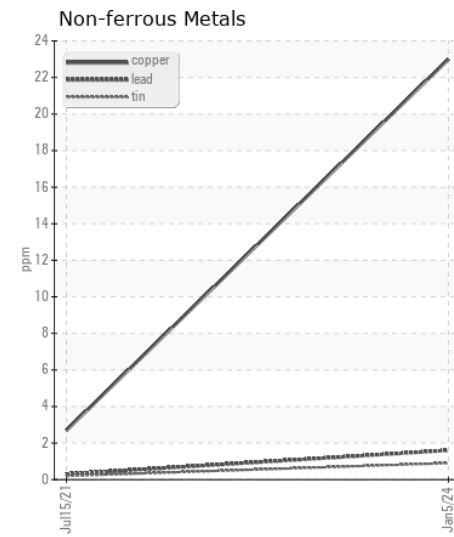
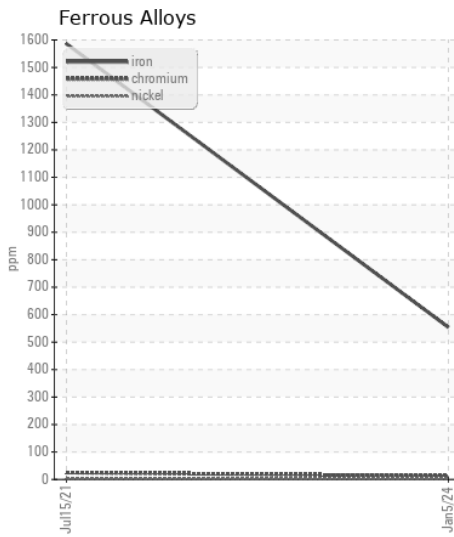
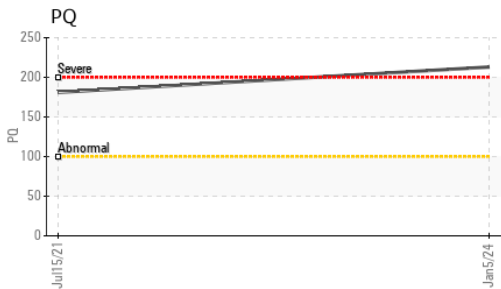
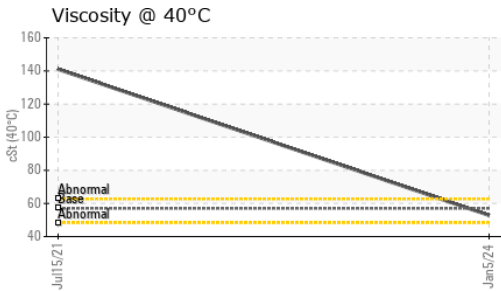
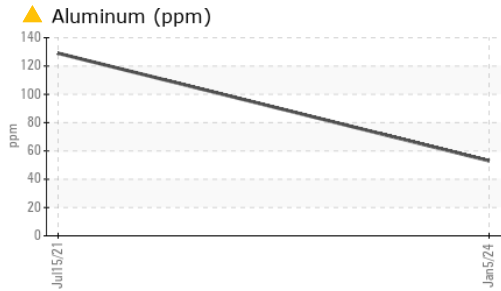
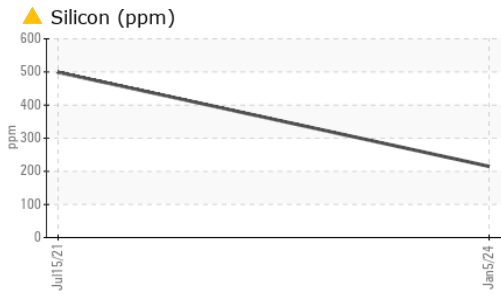
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 215	● 499	---
Potassium	ppm	ASTM D5185m	>20	14	38	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	10	---
Boron	ppm	ASTM D5185m	6	25	175	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	2	---
Manganese	ppm	ASTM D5185m		5	14	---
Magnesium	ppm	ASTM D5185m	145	45	20	---
Calcium	ppm	ASTM D5185m	3570	1239	227	---
Phosphorus	ppm	ASTM D5185m	1290	632	685	---
Zinc	ppm	ASTM D5185m	1640	504	56	---
Sulfur	ppm	ASTM D5185m		3967	16135	---
Visc @ 40°C	cSt	ASTM D445	57.0	52.8	141	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046810 **Received** : 11 Jan 2024
Lab Number : 06058362 **Diagnosed** : 14 Jan 2024
Unique Number : 10829744 **Diagnostician** : Don Baldrige
Test Package : CONST (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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