



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL
SEVERE
NORMAL



Area
Store 2 - Beaver [RO#146800]
Machine Id
JOHN DEERE 450D FF450DX913485
Component
Left 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. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

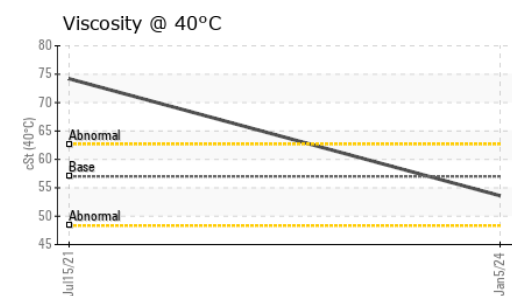
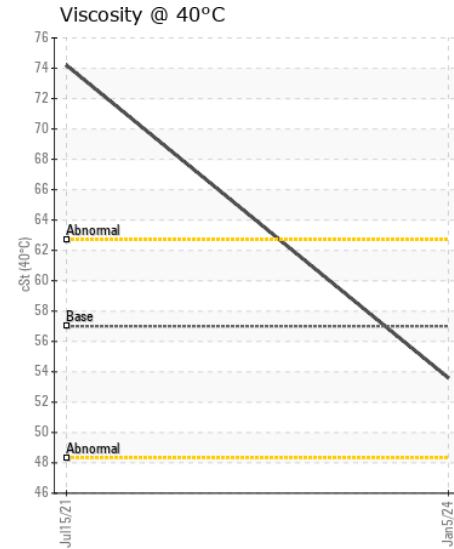
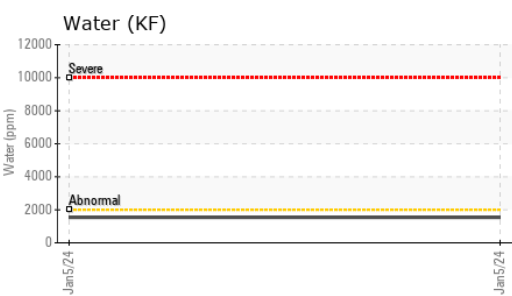
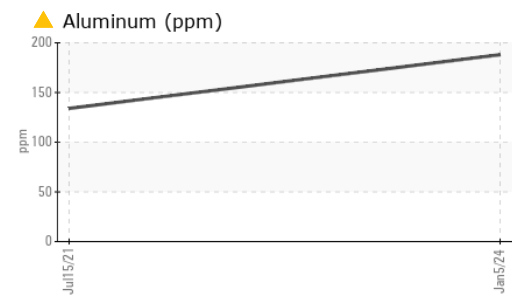
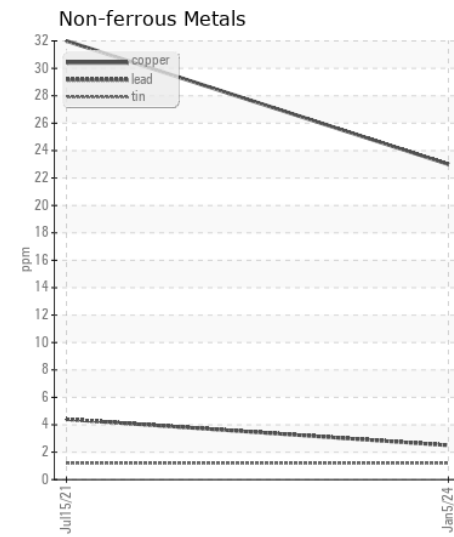
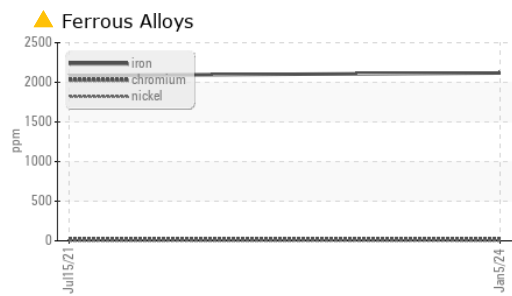
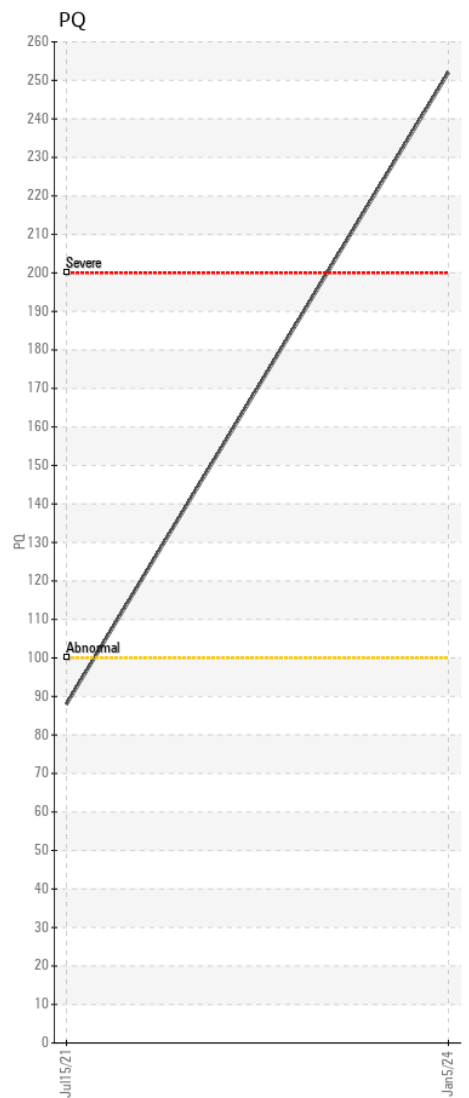
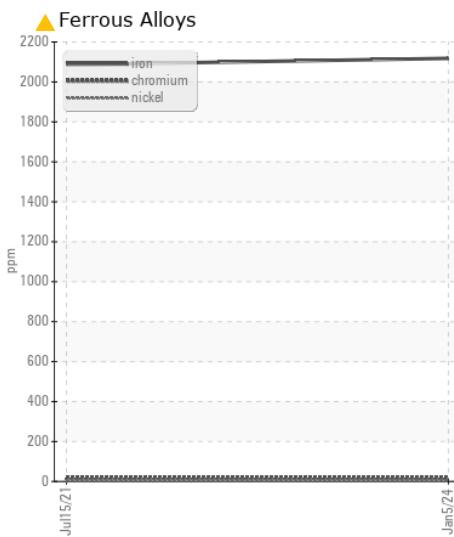
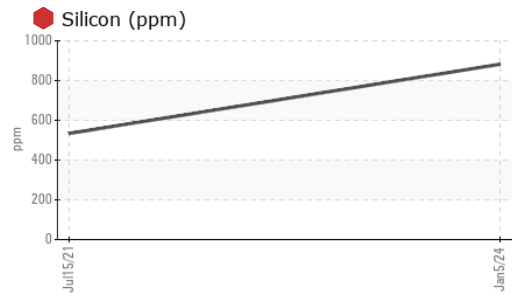
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046809	LEC0022292	---
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				SEVERE	SEVERE	---
PQ		ASTM D8184		252	88	---
Iron	ppm	ASTM D5185m	>1250	▲ 2118	▲ 2086	---
Chromium	ppm	ASTM D5185m	>10	18	19	---
Nickel	ppm	ASTM D5185m	>10	3	2	---
Titanium	ppm	ASTM D5185m		13	9	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		▲ 188	▲ 134	---
Lead	ppm	ASTM D5185m		2	4	---
Copper	ppm	ASTM D5185m		23	32	---
Tin	ppm	ASTM D5185m		1	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m		◆ 882	◆ 534	---
Potassium	ppm	ASTM D5185m	>20	54	34	---
Water	%	ASTM D6304	>0.2	0.154	---	---
ppm Water	ppm	ASTM D6304	>2000	1540	---	---
Silt	scalar	*Visual	NONE	MODER	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	0.2%	NEG	---
Sodium	ppm	ASTM D5185m		8	9	---
Boron	ppm	ASTM D5185m	6	14	112	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	2	3	---
Manganese	ppm	ASTM D5185m		15	18	---
Magnesium	ppm	ASTM D5185m	145	57	30	---
Calcium	ppm	ASTM D5185m	3570	1232	375	---
Phosphorus	ppm	ASTM D5185m	1290	626	597	---
Zinc	ppm	ASTM D5185m	1640	476	103	---
Sulfur	ppm	ASTM D5185m		2747	8205	---
Visc @ 40°C	cSt	ASTM D445	57.0	53.6	▲ 74.2	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046809 **Received** : 11 Jan 2024
Lab Number : 06058361 **Diagnosed** : 14 Jan 2024
Unique Number : 10829743 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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Certificate L2367
 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)