



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 624P 1DW624PAANLZ16271
 Component
Brake
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The fluid change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The iron level is severe.

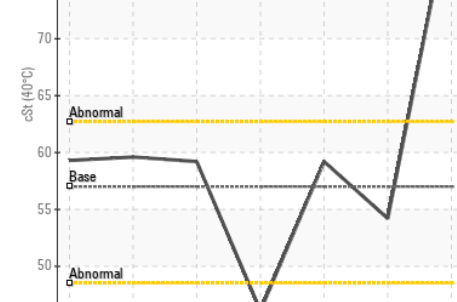
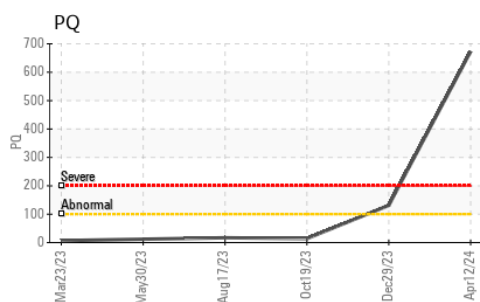
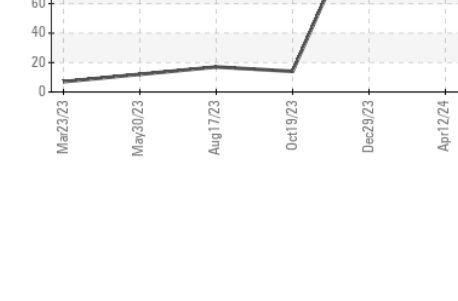
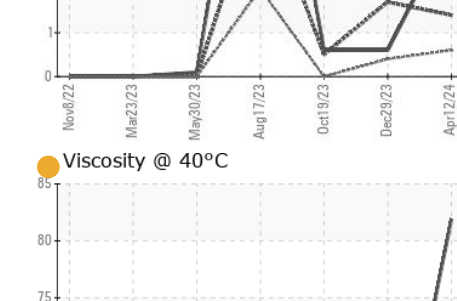
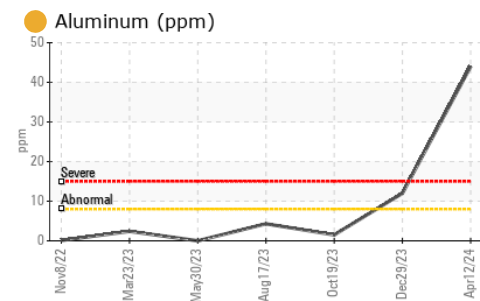
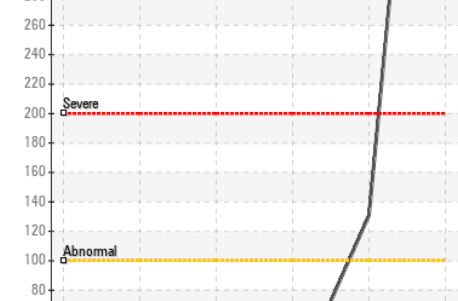
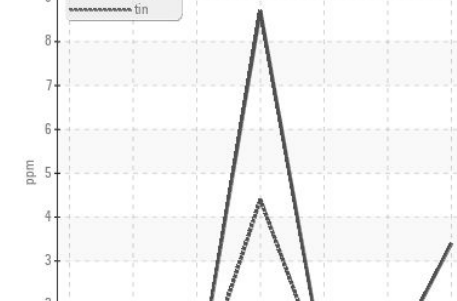
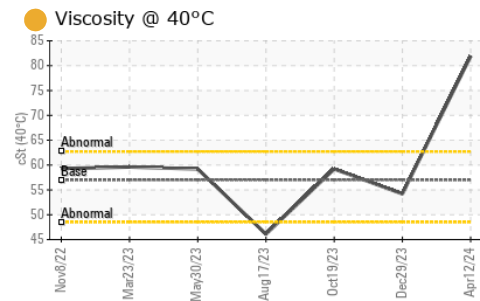
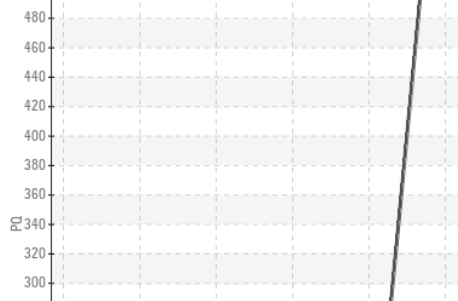
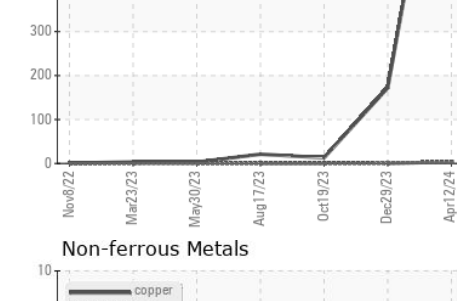
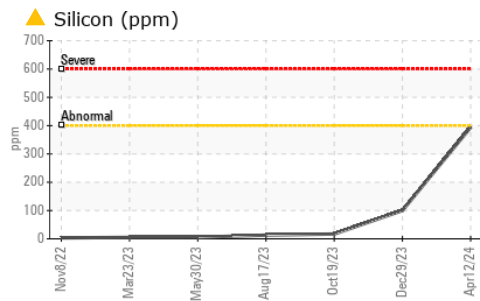
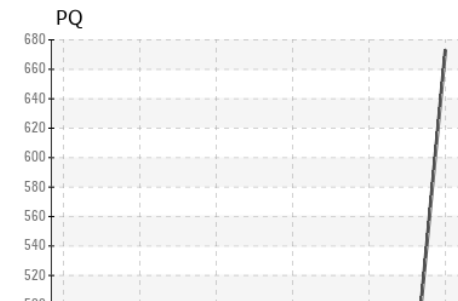
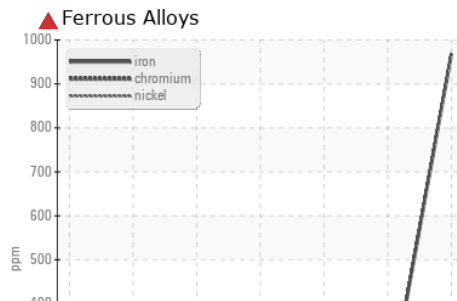
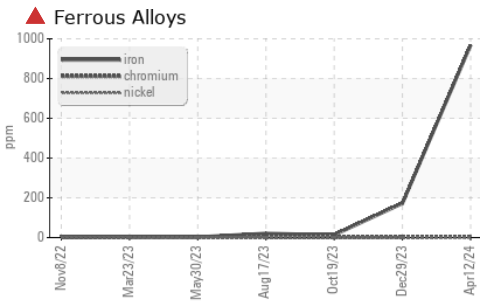
CONTAMINATION

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

FLUID CONDITION

The fluid viscosity is higher than normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0006900	WE0006464	WE0005167
Sample Date		Client Info		12 Apr 2024	29 Dec 2023	19 Oct 2023
Machine Age	hrs	Client Info		3973	3451	2557
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
PQ		ASTM D8184		673	131	14
Iron	ppm	ASTM D5185m	>350	▲ 968	● 172	13
Chromium	ppm	ASTM D5185m	>5	3	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		4	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>8	● 44	12	2
Lead	ppm	ASTM D5185m	>10	1	2	<1
Copper	ppm	ASTM D5185m	>150	3	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>400	▲ 394	100	17
Potassium	ppm	ASTM D5185m	>20	9	4	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		29	10	0
Boron	ppm	ASTM D5185m	6	47	36	10
Barium	ppm	ASTM D5185m	0	13	3	10
Molybdenum	ppm	ASTM D5185m	0	79	67	17
Manganese	ppm	ASTM D5185m		10	2	0
Magnesium	ppm	ASTM D5185m	145	191	177	117
Calcium	ppm	ASTM D5185m	3570	4553	3173	3376
Phosphorus	ppm	ASTM D5185m	1290	979	940	1086
Zinc	ppm	ASTM D5185m	1640	1108	1152	1250
Sulfur	ppm	ASTM D5185m		4621	3400	4838
Visc @ 40°C	cSt	ASTM D445	57.0	● 81.9	54.2	59.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0006900 **Received** : 17 Apr 2024
Lab Number : 06152216 **Tested** : 18 Apr 2024
Unique Number : 10982294 **Diagnosed** : 22 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: 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)