



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W51903]

Machine Id
JOHN DEERE 624P 1DW624PAAMLZ11005

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212355	JR0200239	JR0164323
Sample Date		Client Info		21 May 2024	04 Jan 2024	28 Aug 2023
Machine Age	hrs	Client Info		4473	3952	3447
Oil Age	hrs	Client Info		0	3952	3447
Filter Age	hrs	Client Info		0	3952	3447
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The chromium level is abnormal. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	5	11	11
Chromium	ppm	ASTM D5185m	>10	▲ 14	▲ 27	▲ 25
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	3
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	0	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

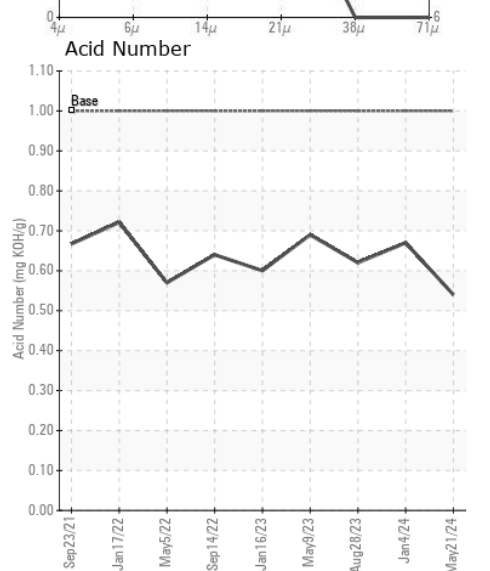
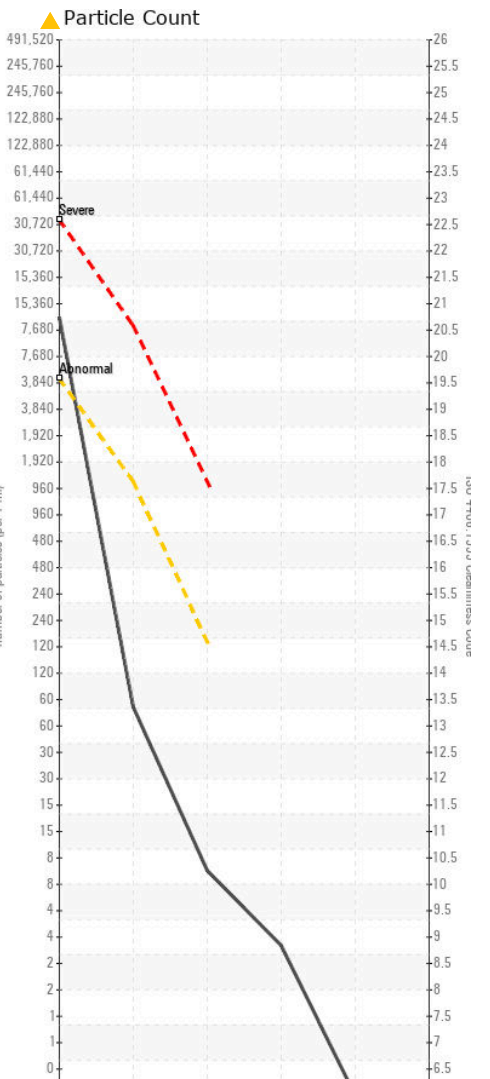
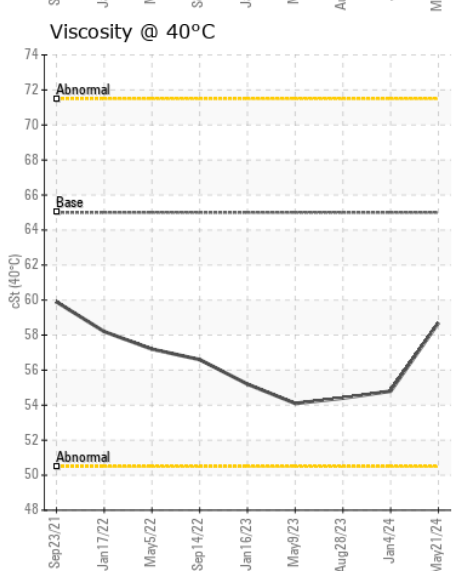
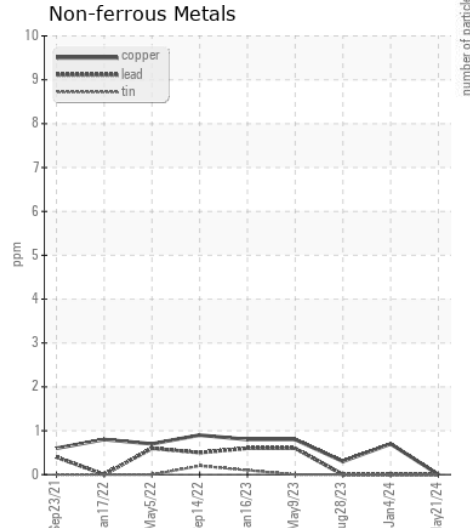
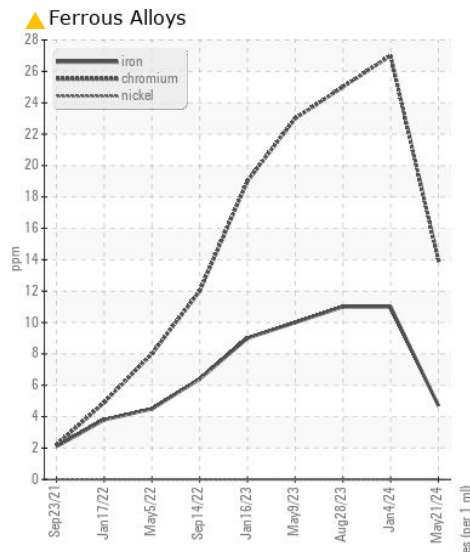
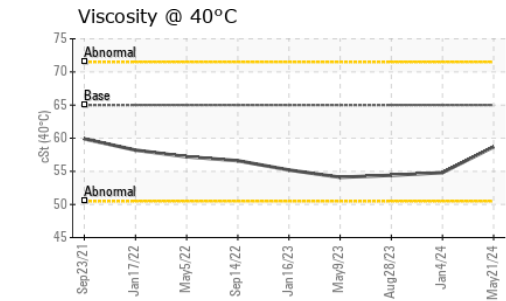
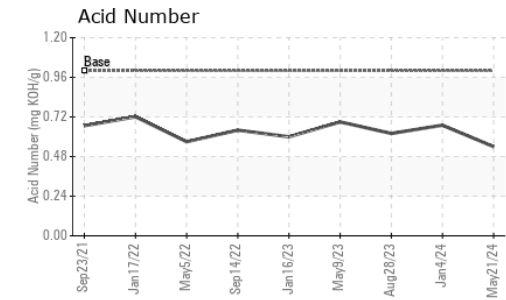
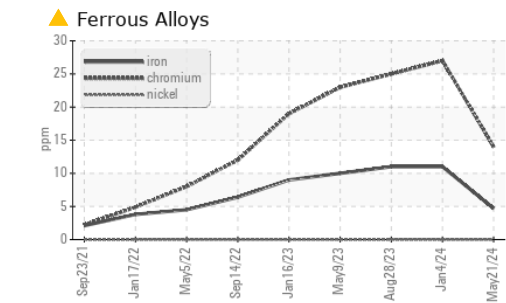
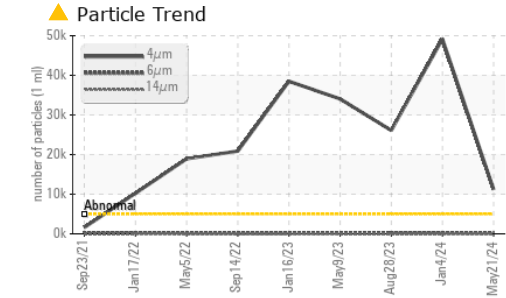
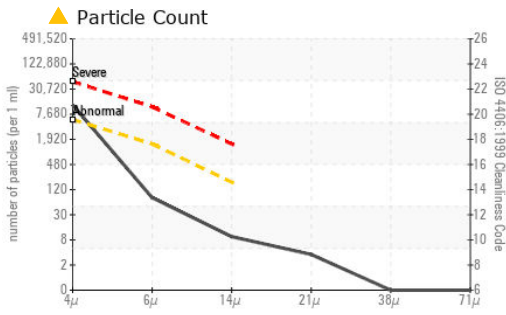
There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	1	1
Potassium	ppm	ASTM D5185m	>20	2	3	5
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 11190	▲ 49173	▲ 26095
Particles >6µm		ASTM D7647	>1300	68	107	100
Particles >14µm		ASTM D7647	>160	8	10	16
Particles >21µm		ASTM D7647	>40	3	2	5
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/13/10	▲ 23/14/10	▲ 22/14/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		2	4	3
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		3	3	5
Calcium	ppm	ASTM D5185m	87	84	88	94
Phosphorus	ppm	ASTM D5185m	727	667	551	624
Zinc	ppm	ASTM D5185m	900	845	758	848
Sulfur	ppm	ASTM D5185m	1500	1830	1287	2051
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.54	0.67	0.62
Visc @ 40°C	cSt	ASTM D445	65	58.7	54.8	54.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212355 **Received** : 28 May 2024
Lab Number : 06192087 **Tested** : 29 May 2024
Unique Number : 11048839 **Diagnosed** : 30 May 2024 - Angela Borella
Test Package : CONST (Additional Tests: PQ)

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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)