



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 1 - Cowen [146875]
 Machine Id
JOHN DEERE 624P 1DW624PACMLZ13219
 Component
Rear Axle
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (4 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		LEC0040521	LEC0041070	LEC0036931
Sample Date		Client Info		08 Feb 2024	04 Aug 2023	20 Mar 2023
Machine Age	hrs	Client Info		3146	2507	2019
Oil Age	hrs	Client Info		1127	488	2019
Filter Age	hrs	Client Info		1127	488	1007
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		12	16	11
Iron	ppm	ASTM D5185m	>750	43	34	85
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>21	0	<1	<1
Lead	ppm	ASTM D5185m	>49	▲ 55	34	▲ 82
Copper	ppm	ASTM D5185m	>101	▲ 113	53	▲ 114
Tin	ppm	ASTM D5185m	>10	0	0	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

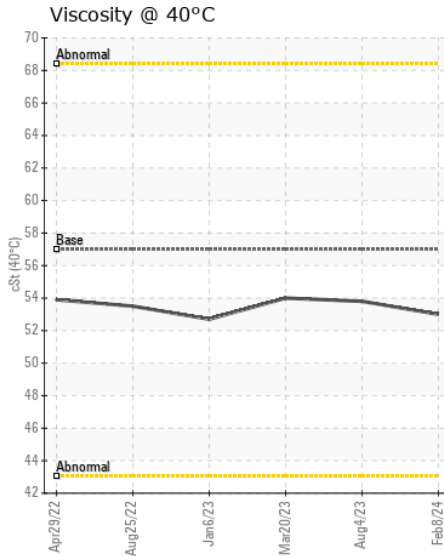
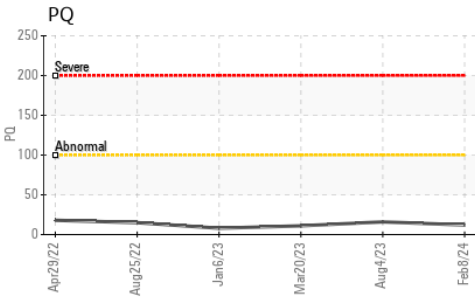
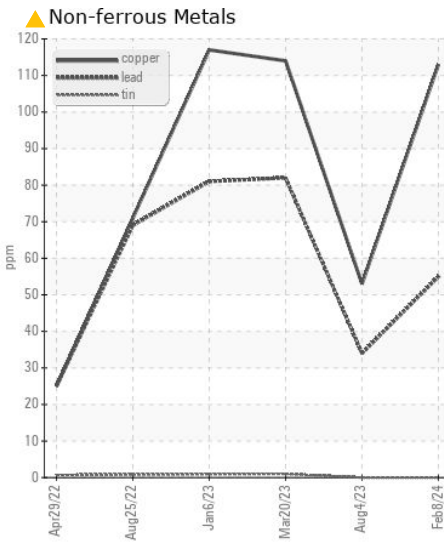
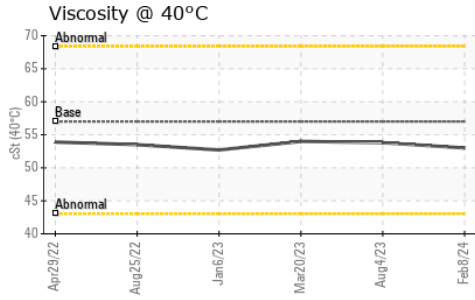
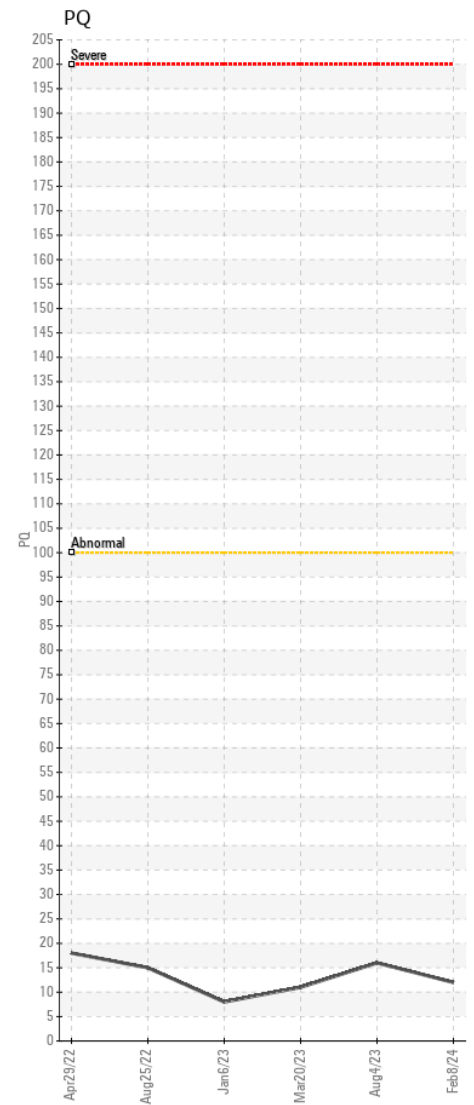
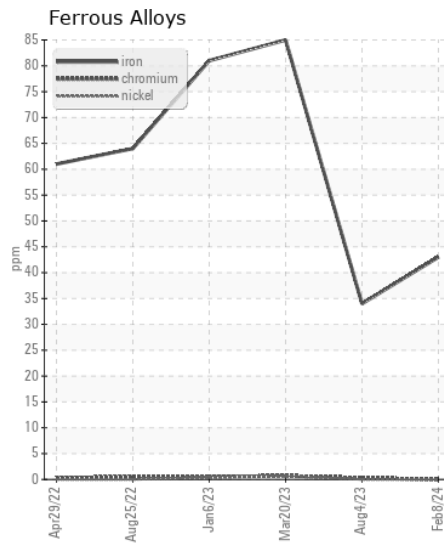
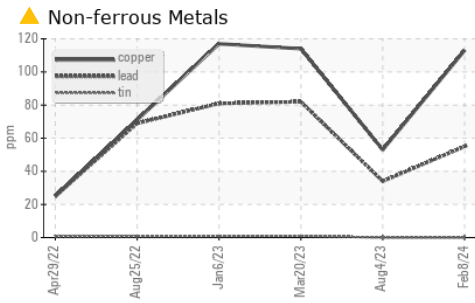
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	6	5	7
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	4	3	6
Boron	ppm	ASTM D5185m	6	2	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	5	<1	4
Manganese	ppm	ASTM D5185m		<1	<1	3
Magnesium	ppm	ASTM D5185m	145	100	98	95
Calcium	ppm	ASTM D5185m	3570	3331	3286	3121
Phosphorus	ppm	ASTM D5185m	1290	989	978	953
Zinc	ppm	ASTM D5185m	1640	1284	1194	1154
Sulfur	ppm	ASTM D5185m		3425	4229	3570
Visc @ 40°C	cSt	ASTM D445	57.0	53.0	53.8	54.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0040521 **Received** : 12 Feb 2024
Lab Number : 06086270 **Tested** : 13 Feb 2024
Unique Number : 10873715 **Diagnosed** : 13 Feb 2024 - Sean Felton
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)