



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Store 1 - Cowen [146747]

Machine Id

JOHN DEERE 624P 1DW624PAJNLZ15097

Component

Front Axle

Fluid

JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041115	LEC0044282	LEC0043514
Sample Date		Client Info		12 Jan 2024	20 Oct 2023	09 Aug 2023
Machine Age	hrs	Client Info		2627	2077	1595
Oil Age	hrs	Client Info		550	2077	1595
Filter Age	hrs	Client Info		550	1008	526
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		15	18	17
Iron	ppm	ASTM D5185m	>750	14	50	54
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	2	<1	3
Lead	ppm	ASTM D5185m	>49	6	30	24
Copper	ppm	ASTM D5185m	>101	61	▲ 270	▲ 229
Tin	ppm	ASTM D5185m	>10	0	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

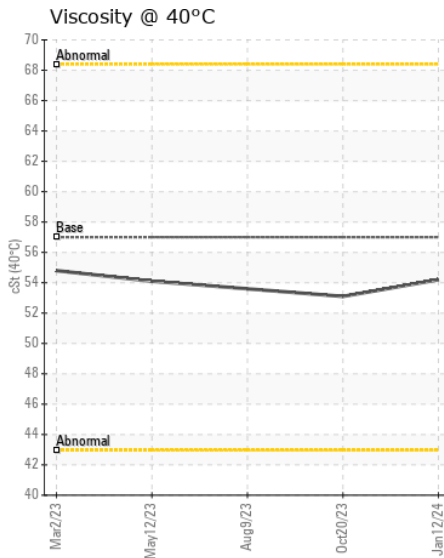
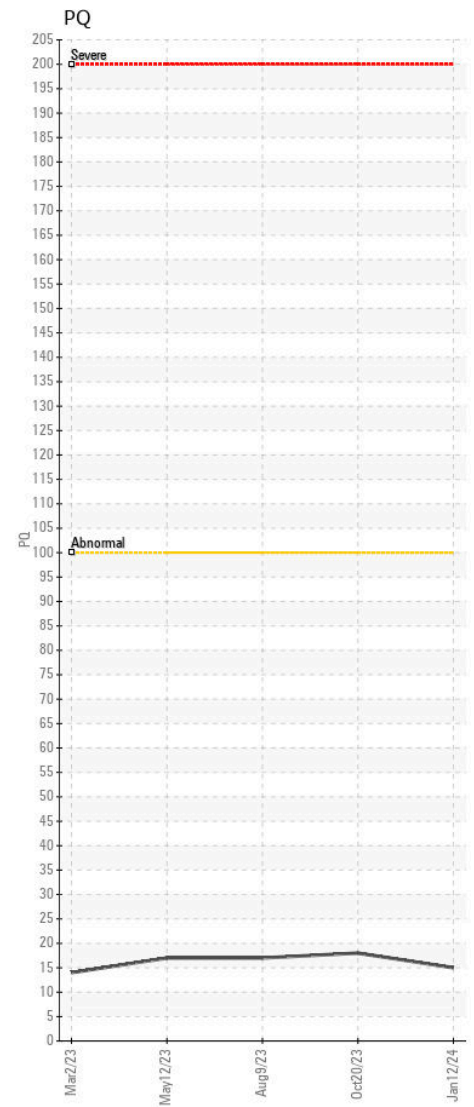
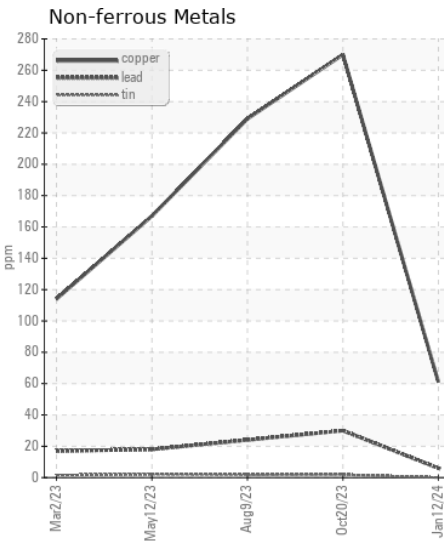
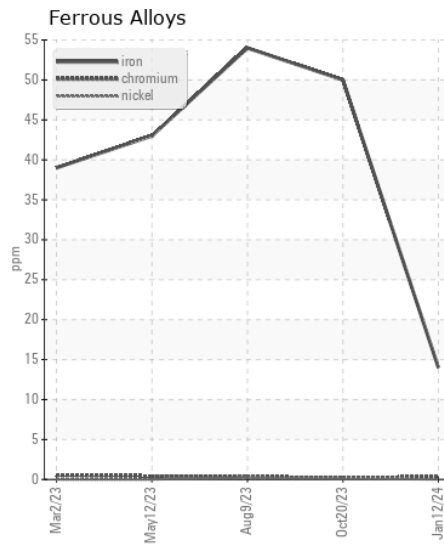
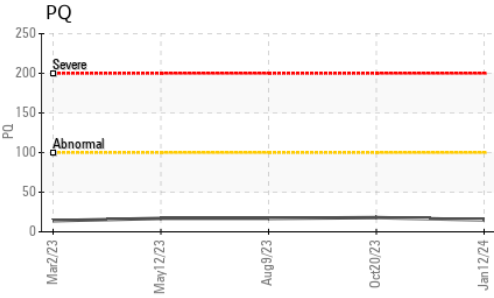
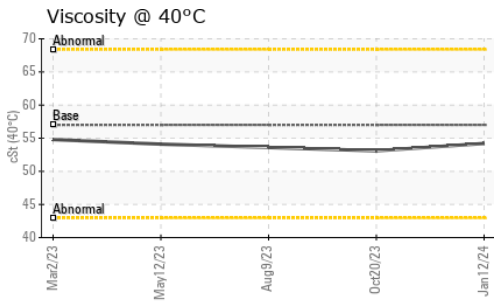
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	3	4	7
Potassium	ppm	ASTM D5185m	>20	2	<1	3
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	0	4	5
Boron	ppm	ASTM D5185m	6	0	0	<1
Barium	ppm	ASTM D5185m	0	3	3	6
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		0	2	2
Magnesium	ppm	ASTM D5185m	145	101	95	84
Calcium	ppm	ASTM D5185m	3570	3393	3429	3323
Phosphorus	ppm	ASTM D5185m	1290	977	1092	979
Zinc	ppm	ASTM D5185m	1640	1262	1271	1166
Sulfur	ppm	ASTM D5185m		3700	3715	3452
Visc @ 40°C	cSt	ASTM D445	57.0	54.2	53.1	53.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041115 **Received** : 18 Jan 2024
Lab Number : 06064589 **Diagnosed** : 19 Jan 2024
Unique Number : 10835971 **Diagnostician** : Wes Davis
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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