



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[127685]

Machine Id
JOHN DEERE 624P 1DW624PATPLX18641

Component
Rear Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

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		WE0007859	WE0006926	WE0006303
Sample Date		Client Info		11 Jul 2024	01 Apr 2024	07 Feb 2024
Machine Age	hrs	Client Info		1498	1022	723
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

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

PQ		ASTM D8184		16	28	18
Iron	ppm	ASTM D5185m	>500	36	35	75
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	<1	0
Lead	ppm	ASTM D5185m	>25	▲ 51	▲ 36	▲ 27
Copper	ppm	ASTM D5185m	>100	44	20	▲ 154
Tin	ppm	ASTM D5185m	>10	0	0	5
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

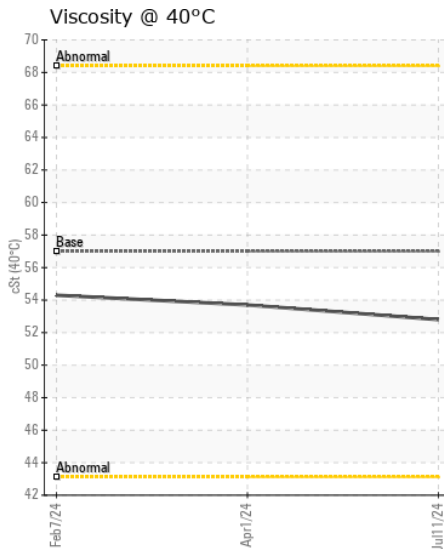
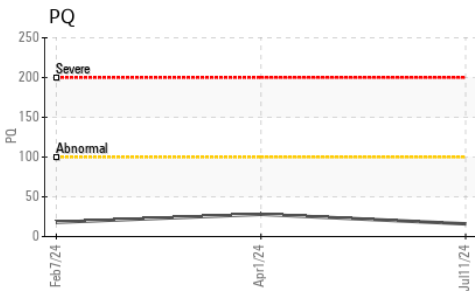
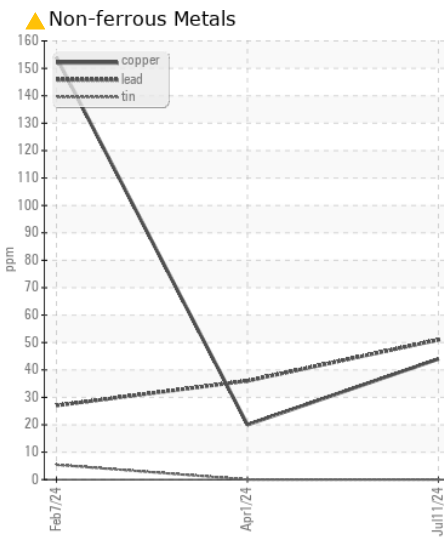
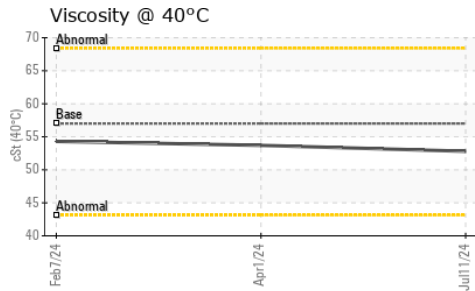
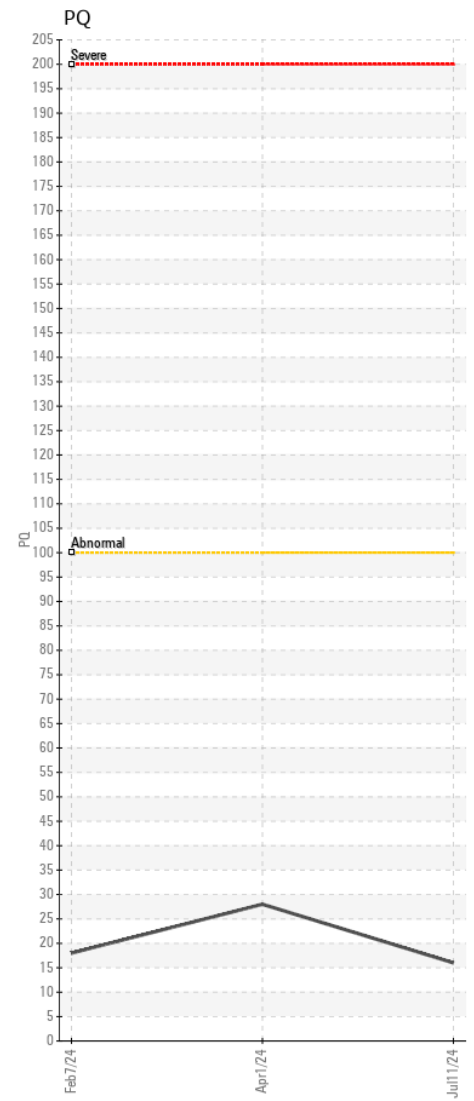
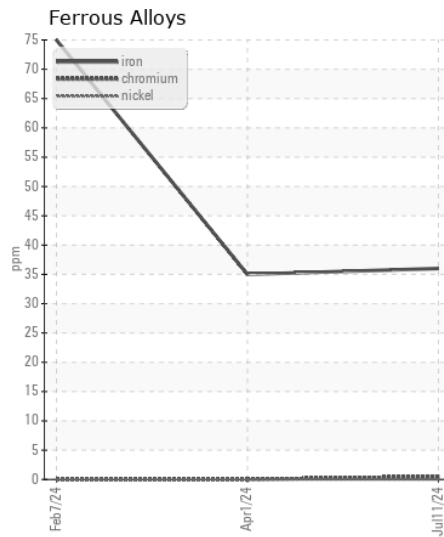
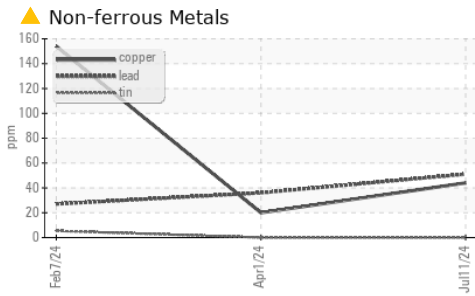
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	6	6	4
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water		WC Method	>.2	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	>.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	2	7
Boron	ppm	ASTM D5185m	6	<1	0	<1
Barium	ppm	ASTM D5185m	0	0	0	3
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m	145	90	88	94
Calcium	ppm	ASTM D5185m	3570	3359	3198	3268
Phosphorus	ppm	ASTM D5185m	1290	902	881	1030
Zinc	ppm	ASTM D5185m	1640	1242	1118	1268
Sulfur	ppm	ASTM D5185m		3532	3813	3525
Visc @ 40°C	cSt	ASTM D445	57.0	52.8	53.7	54.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WE0007859

Lab Number : 06238071

Unique Number : 11126905

Test Package : CONST (Additional Tests: PQ)

Received : 16 Jul 2024

Tested : 17 Jul 2024

Diagnosed : 18 Jul 2024 - Don Baldrige

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT

P.O. BOX 412

NORTHPORT, AL

US 35476

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F:

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)