



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
CHRISTOPHER CONTRACTING [A35176]
 Machine Id
JOHN DEERE 524P 1DW524PAJMLZ12954
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: A35176)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0006557	WE0005909	WE0004868
Sample Date		Client Info		17 Apr 2024	26 Dec 2023	16 Aug 2023
Machine Age	hrs	Client Info		1945	1512	1005
Oil Age	hrs	Client Info		430	1512	500
Filter Age	hrs	Client Info		430	1512	500
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	10	7	23
Chromium	ppm	ASTM D5185m	>11	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	3
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	4	5	4
Lead	ppm	ASTM D5185m	>26	<1	0	1
Copper	ppm	ASTM D5185m	>26	2	7	▲ 65
Tin	ppm	ASTM D5185m	>4	<1	2	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

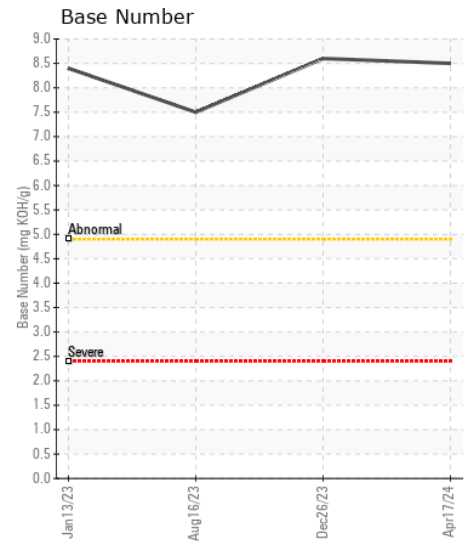
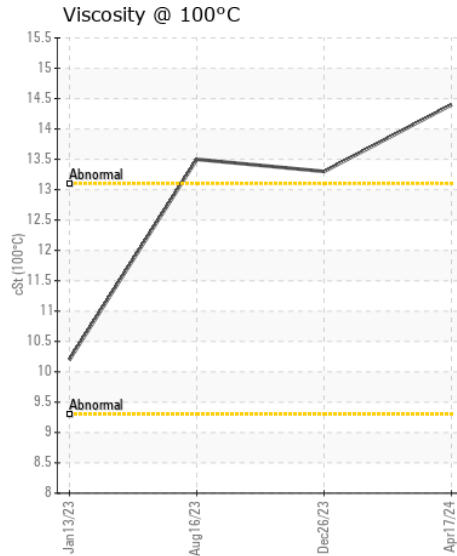
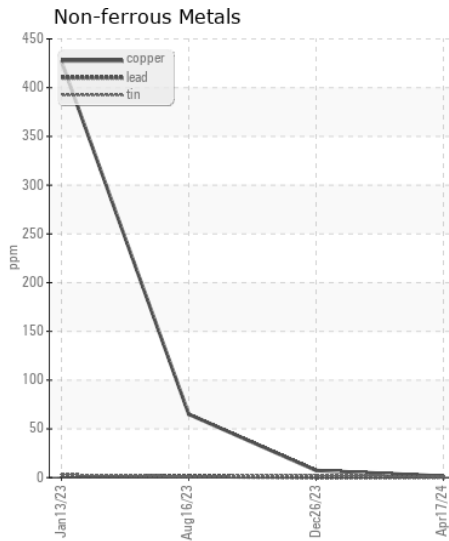
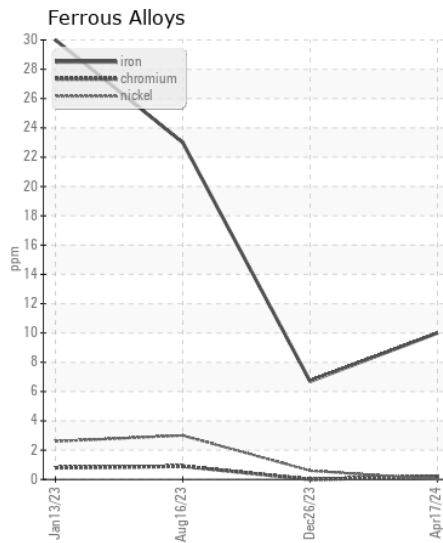
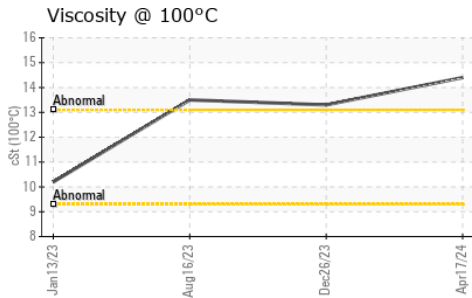
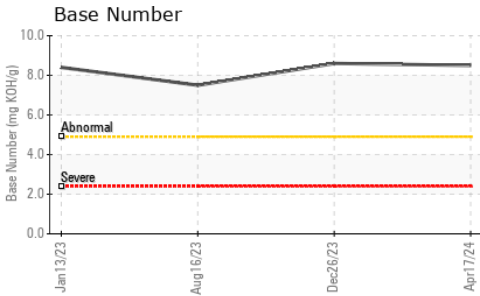
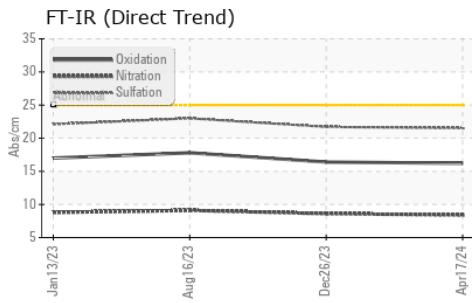
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	6	5	8
Potassium	ppm	ASTM D5185m	>20	0	0	3
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.6	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.7	23.0
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	>0.21	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	2	1	4
Boron	ppm	ASTM D5185m		267	271	199
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		258	246	270
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		864	810	882
Calcium	ppm	ASTM D5185m		1484	1380	1502
Phosphorus	ppm	ASTM D5185m		918	934	848
Zinc	ppm	ASTM D5185m		1053	1135	1070
Sulfur	ppm	ASTM D5185m		3585	3022	3286
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	16.4	17.8
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	8.6	7.5
Visc @ 100°C	cSt	ASTM D445		14.4	13.3	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0006557 **Received** : 19 Apr 2024
Lab Number : 06154128 **Tested** : 23 Apr 2024
Unique Number : 10989551 **Diagnosed** : 23 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE
 25135 ONE AVIATION WAY SW
 MADISON, AL
 US 35756
 Contact: BOBBY LUCKY
 warriorparts033@gmail.com

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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