



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 624P 1DW624PANVLZ16592

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0006458	WE0005046	WE0004506
Sample Date		Client Info		06 Feb 2024	31 Aug 2023	26 Jun 2023
Machine Age	hrs	Client Info		3544	2510	1958
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	10	23	▲ 74
Chromium	ppm	ASTM D5185m	>11	<1	1	3
Nickel	ppm	ASTM D5185m	>5	1	1	5
Titanium	ppm	ASTM D5185m		0	<1	1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	9	14	▲ 38
Lead	ppm	ASTM D5185m	>26	0	0	8
Copper	ppm	ASTM D5185m	>26	0	6	46
Tin	ppm	ASTM D5185m	>4	<1	<1	▲ 6
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

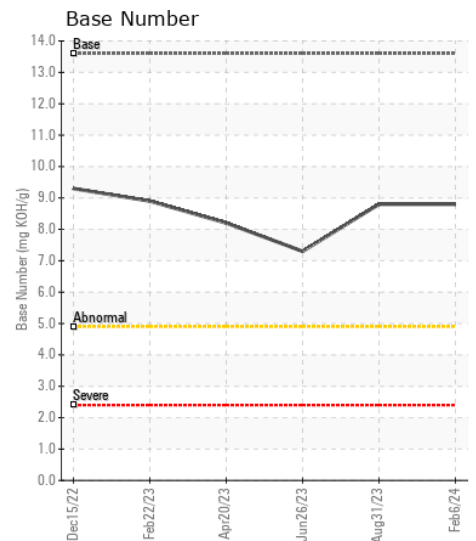
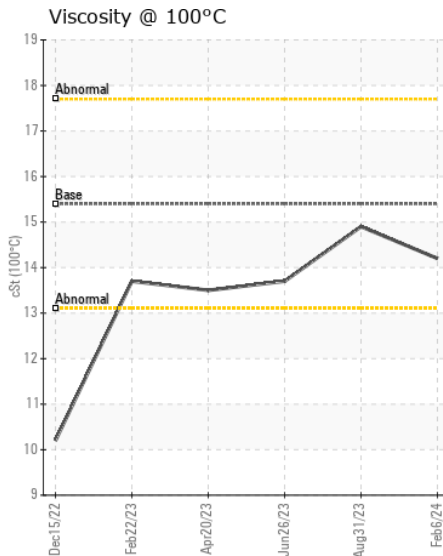
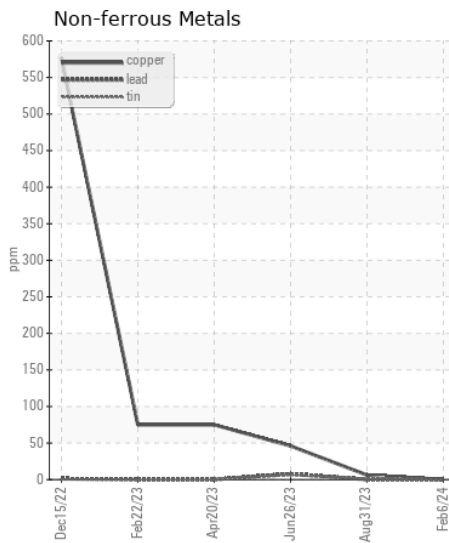
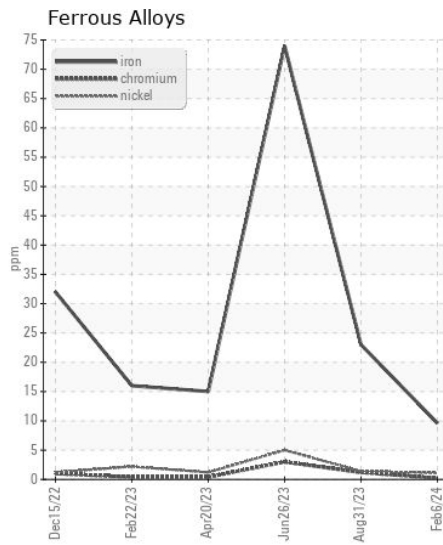
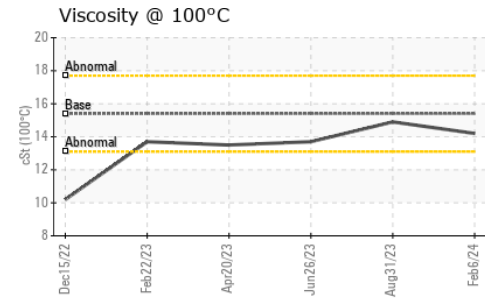
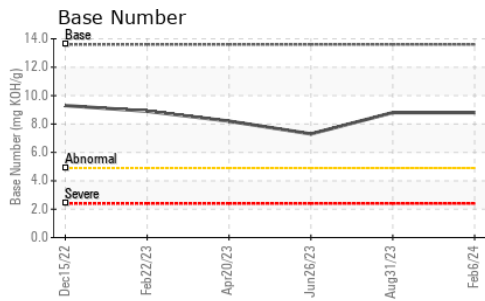
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	6	13	▲ 51
Potassium	ppm	ASTM D5185m	>20	12	25	13
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	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.4	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	23.7	27.5
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 suitable for further service.

Sodium	ppm	ASTM D5185m	>31	2	4	6
Boron	ppm	ASTM D5185m		269	209	68
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		265	279	285
Manganese	ppm	ASTM D5185m		<1	<1	4
Magnesium	ppm	ASTM D5185m		846	930	945
Calcium	ppm	ASTM D5185m		1331	1558	1670
Phosphorus	ppm	ASTM D5185m		912	950	895
Zinc	ppm	ASTM D5185m		1075	1194	1152
Sulfur	ppm	ASTM D5185m		2890	3910	3575
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	17.9	21.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	8.8	7.3
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.9	13.7



Certificate L2367

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

Sample No. : WE0006458

Lab Number : 06083420

Unique Number : 10870865

Test Package : CONST (Additional Tests: TBN)

Received : 08 Feb 2024

Tested : 09 Feb 2024

Diagnosed : 09 Feb 2024 - Wes Davis

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT

P.O. BOX 412

NORTHPORT, AL

US 35476

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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)