



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 624P 1DW624PAHMLZ10763

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0223404	JR0196916	JR0143527
Sample Date		Client Info		30 Jun 2024	23 Feb 2024	14 Oct 2022
Machine Age	hrs	Client Info		3062	2596	1557
Oil Age	hrs	Client Info		0	500	0
Filter Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	11	14	19
Chromium	ppm	ASTM D5185m	>11	<1	<1	6
Nickel	ppm	ASTM D5185m	>5	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	3	1
Lead	ppm	ASTM D5185m	>26	<1	0	5
Copper	ppm	ASTM D5185m	>26	2	9	6
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

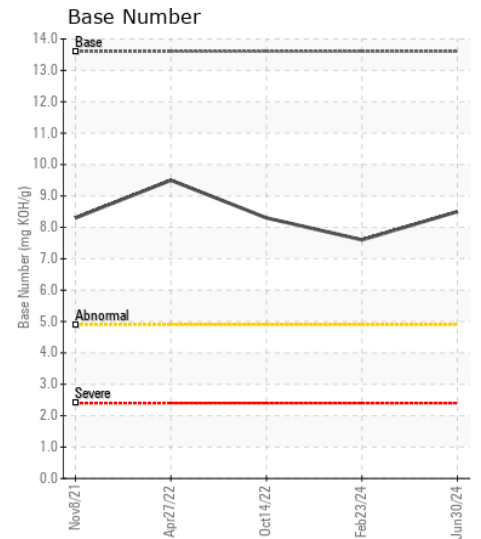
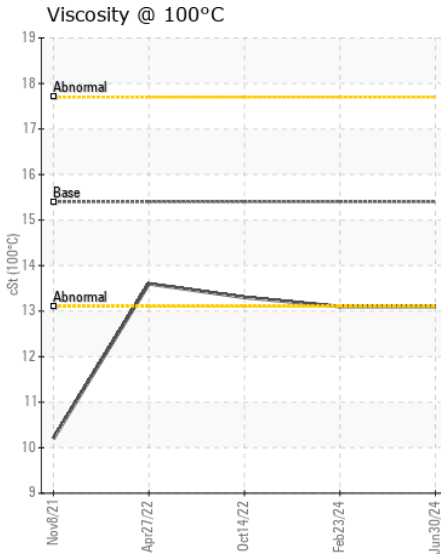
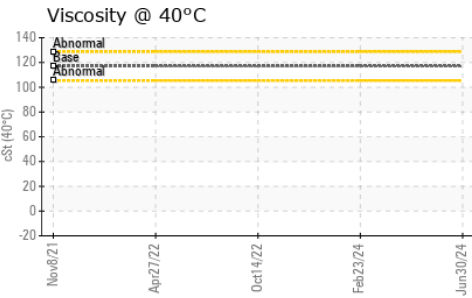
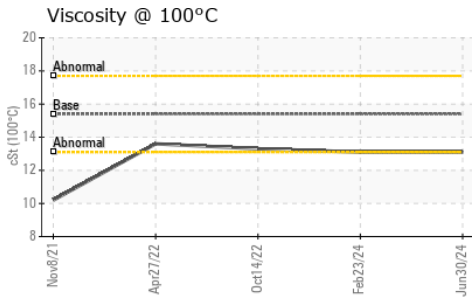
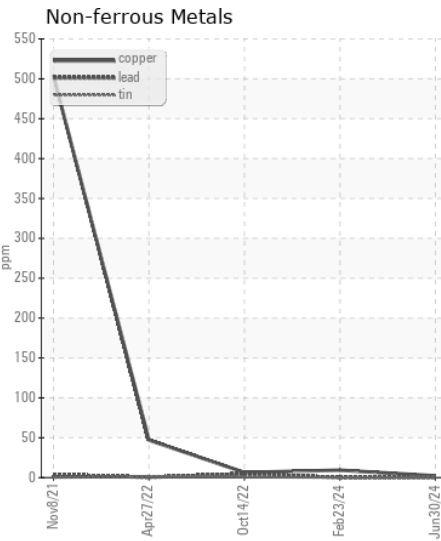
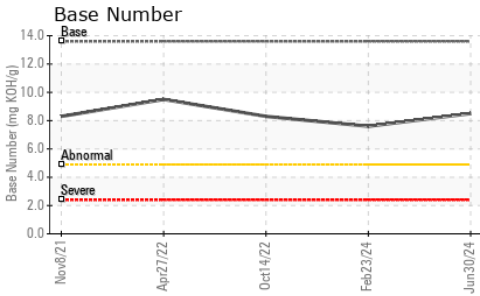
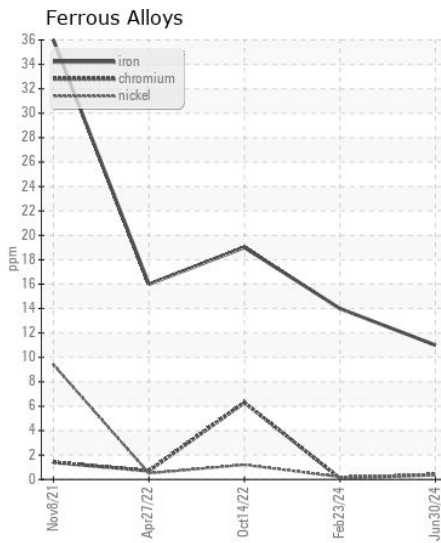
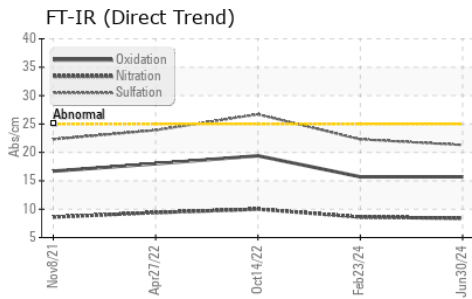
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	6	7	9
Potassium	ppm	ASTM D5185m	>20	0	4	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	0.3	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.6	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	22.3	26.7
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	<1	14
Boron	ppm	ASTM D5185m		200	193	109
Barium	ppm	ASTM D5185m		<1	9	0
Molybdenum	ppm	ASTM D5185m		245	243	216
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		881	670	735
Calcium	ppm	ASTM D5185m		1600	1202	1372
Phosphorus	ppm	ASTM D5185m		990	768	780
Zinc	ppm	ASTM D5185m		1190	911	961
Sulfur	ppm	ASTM D5185m		3914	2534	2856
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.7	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	7.6	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.1	13.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0223404 **Received** : 01 Jul 2024
Lab Number : 06224404 **Tested** : 02 Jul 2024
Unique Number : 11102601 **Diagnosed** : 02 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KV40, TBN)

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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