



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 624P 1DW624PAAMLZ12591

Component
Diesel Engine

Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213650	JR0187160	JR0121983
Sample Date		Client Info		30 Jun 2024	11 Oct 2023	13 Feb 2023
Machine Age	hrs	Client Info		4471	3154	2226
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	29	20	6
Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	0	3
Lead	ppm	ASTM D5185m	>26	3	2	<1
Copper	ppm	ASTM D5185m	>26	3	4	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<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

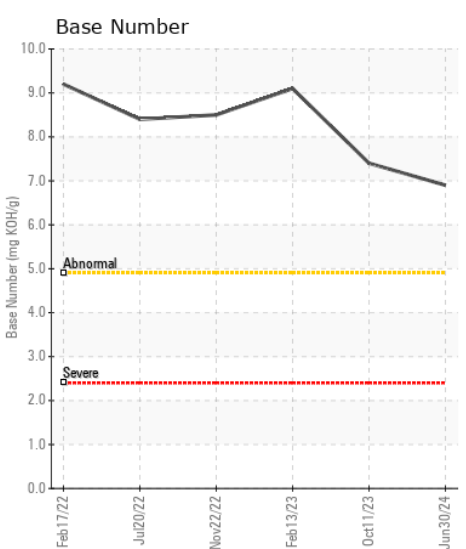
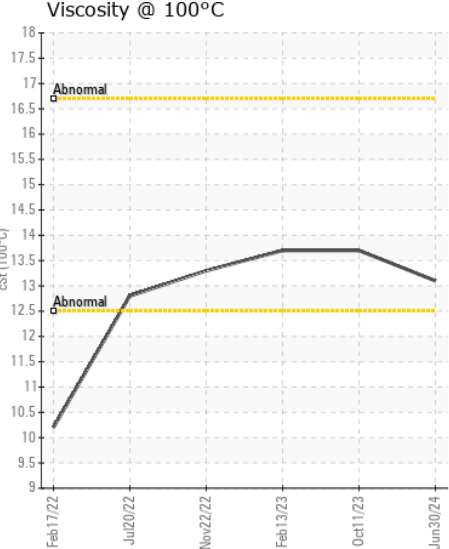
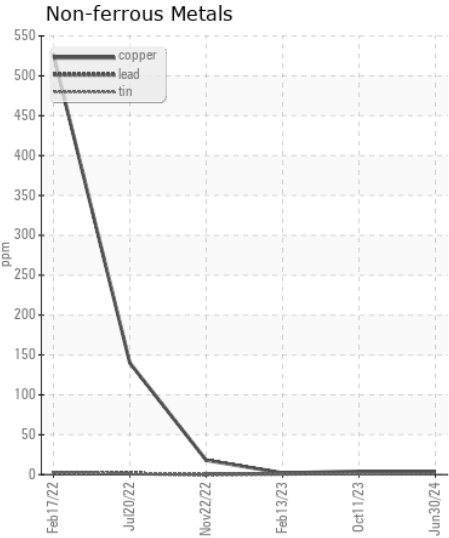
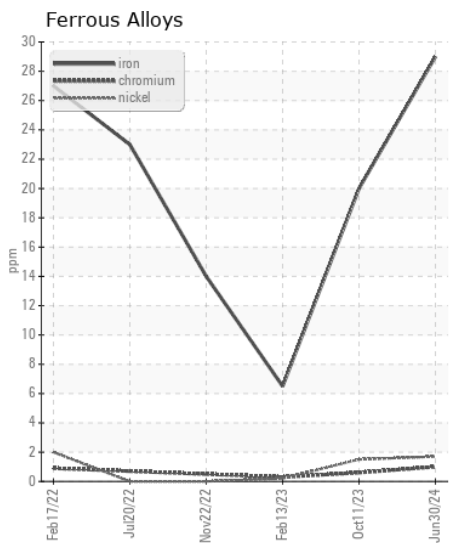
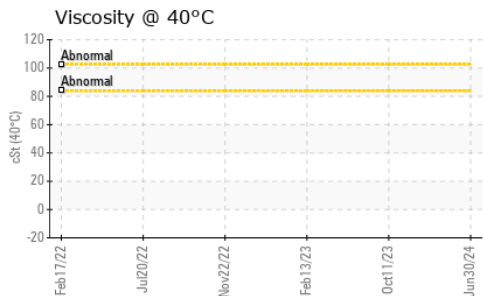
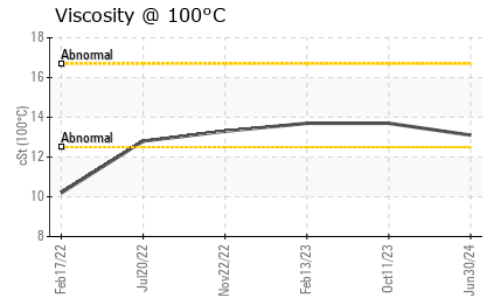
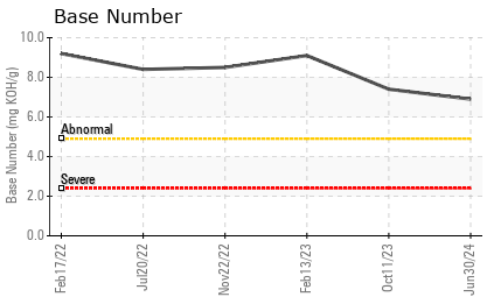
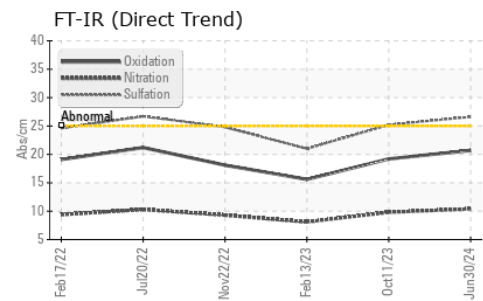
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	7	7	6
Potassium	ppm	ASTM D5185m	>20	3	5	2
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	0.6	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.8	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	25.2	21.0
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 suitable for further service.

Sodium	ppm	ASTM D5185m	>31	4	2	2
Boron	ppm	ASTM D5185m		44	60	260
Barium	ppm	ASTM D5185m		<1	2	<1
Molybdenum	ppm	ASTM D5185m		247	226	241
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		872	667	853
Calcium	ppm	ASTM D5185m		1675	1548	1511
Phosphorus	ppm	ASTM D5185m		918	827	902
Zinc	ppm	ASTM D5185m		1131	1067	1148
Sulfur	ppm	ASTM D5185m		3822	3506	3798
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	19.2	15.6
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	7.4	9.1
Visc @ 100°C	cSt	ASTM D445		13.1	13.7	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213650 **Received** : 01 Jul 2024
Lab Number : 06224310 **Tested** : 02 Jul 2024
Unique Number : 11102507 **Diagnosed** : 02 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KV40, TBN)

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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)