



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[W67465]

Machine Id

JOHN DEERE 624J DW624JZ610125

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215176	JR0134329	JRMC013197
Sample Date		Client Info		21 May 2024	23 Aug 2022	22 Aug 2011
Machine Age	hrs	Client Info		0	1203	5412
Oil Age	hrs	Client Info		0	0	300
Filter Age	hrs	Client Info		0	0	300
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	17	▲ 109	20
Chromium	ppm	ASTM D5185m	>11	0	3	1
Nickel	ppm	ASTM D5185m	>5	0	1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	7	14	3
Lead	ppm	ASTM D5185m	>26	0	▲ 56	<1
Copper	ppm	ASTM D5185m	>26	1	▲ 44	2
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

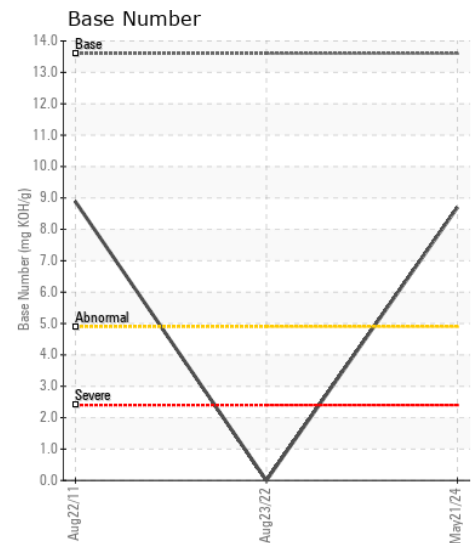
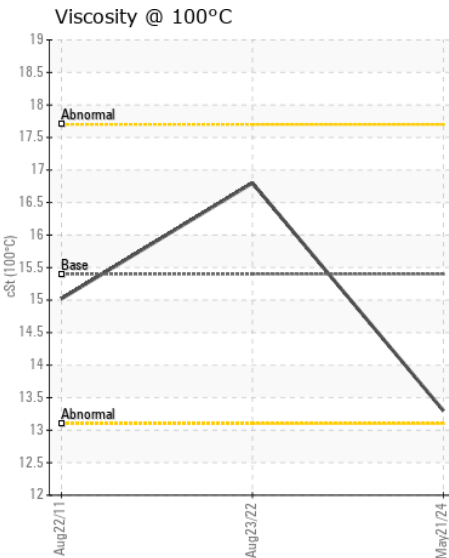
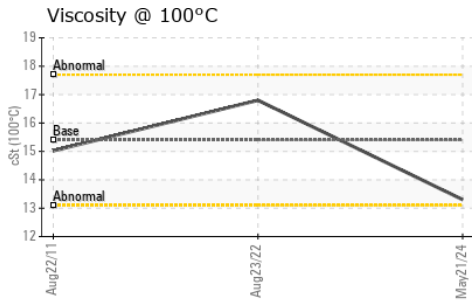
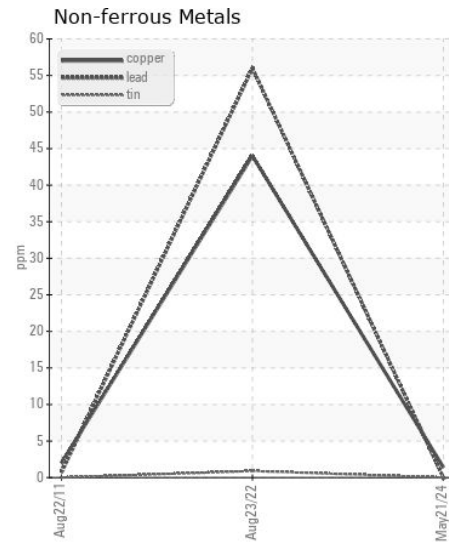
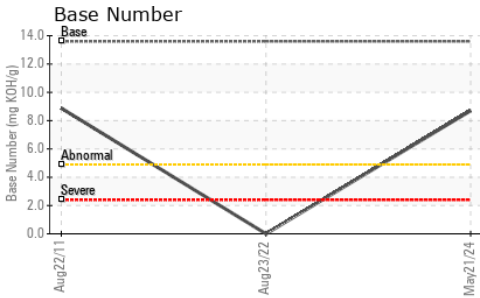
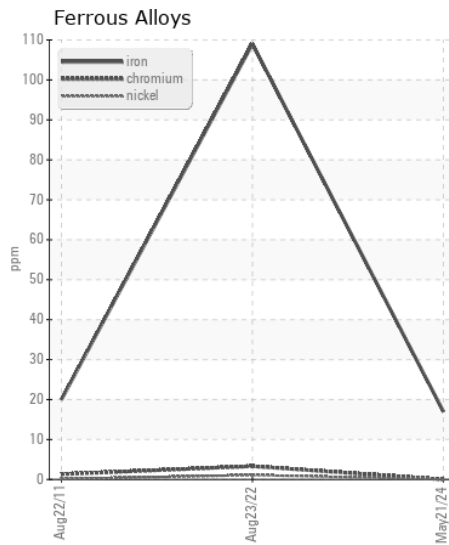
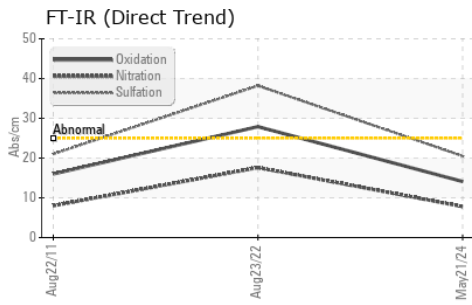
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	6	7	5
Potassium	ppm	ASTM D5185m	>20	0	2	0
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	0.8	▲ 6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	7.8	17.6	8.
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	38.2	21.
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	<1	3	5
Boron	ppm	ASTM D5185m		269	12	82
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		230	98	44
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m		761	886	159
Calcium	ppm	ASTM D5185m		1417	1135	2414
Phosphorus	ppm	ASTM D5185m		866	884	1063
Zinc	ppm	ASTM D5185m		1046	1208	1213
Sulfur	ppm	ASTM D5185m		3259	2574	3673
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	27.9	16.
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.7	● 0.0	8.88
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	▲ 16.8	15.02



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215176 **Received** : 22 May 2024
Lab Number : 06187455 **Tested** : 23 May 2024
Unique Number : 11044207 **Diagnosed** : 23 May 2024 - Wes Davis
Test Package : CONST (Additional Tests: 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)