



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W67961]

Machine Id
SAKAI SW880 4SW65-20124

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W67961)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0205753	JR0182841	JR0156042
Sample Date		Client Info		20 Jun 2024	31 Aug 2023	01 Mar 2023
Machine Age	hrs	Client Info		4658	1987	1670
Oil Age	hrs	Client Info		2777	0	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	26	21	8
Chromium	ppm	ASTM D5185m	>20	<1	1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	6	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	2	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

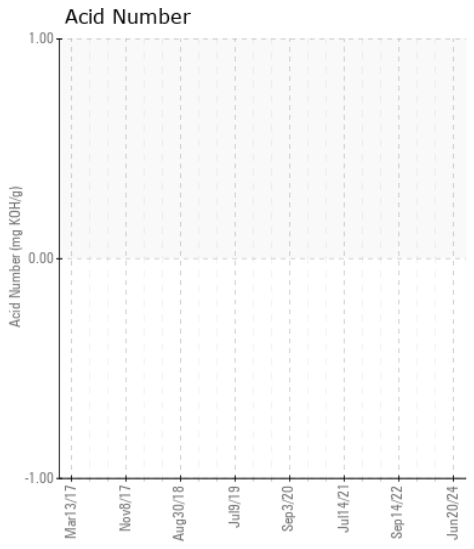
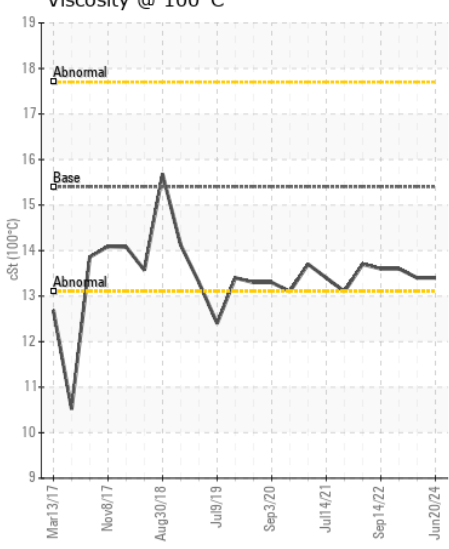
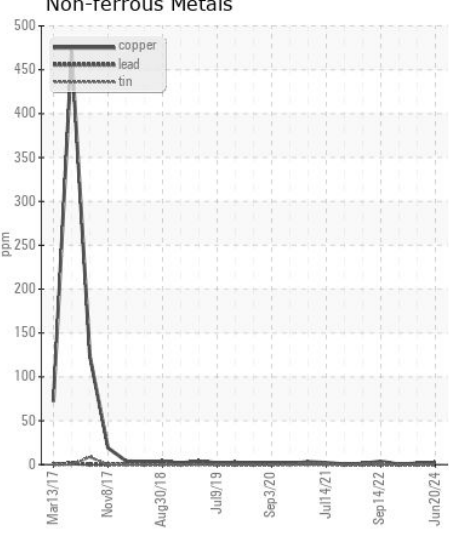
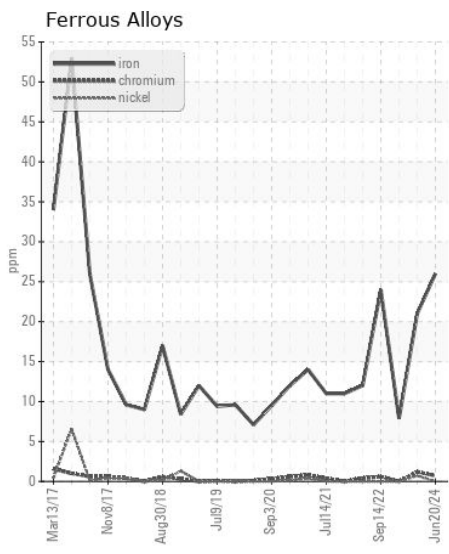
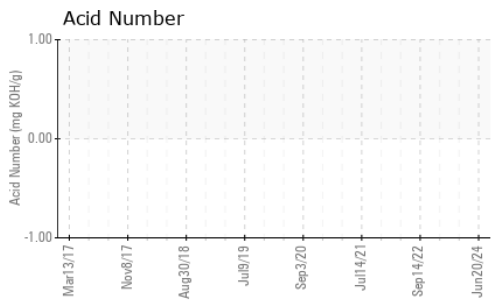
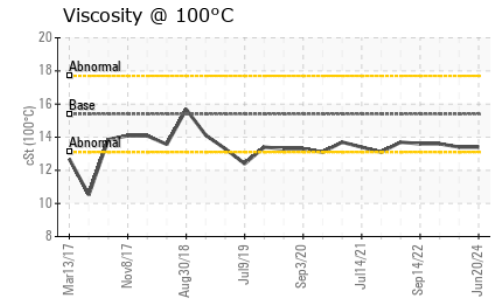
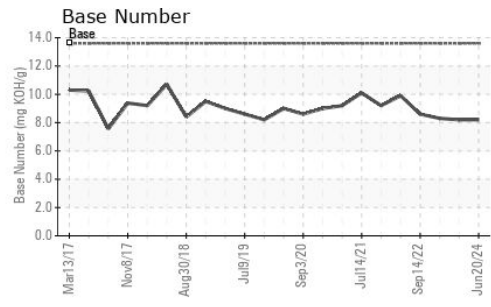
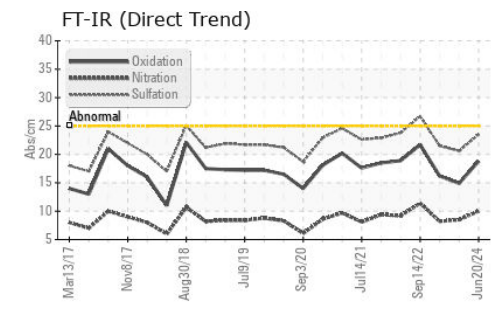
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	13	5
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.5	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	20.6	21.5
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	>0.2	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		11	6	2
Boron	ppm	ASTM D5185m		157	299	205
Barium	ppm	ASTM D5185m		<1	0	1
Molybdenum	ppm	ASTM D5185m		242	264	238
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		804	883	685
Calcium	ppm	ASTM D5185m		1566	1513	1392
Phosphorus	ppm	ASTM D5185m		945	948	849
Zinc	ppm	ASTM D5185m		1120	1103	1034
Sulfur	ppm	ASTM D5185m		3439	3579	2872
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	14.9	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.2	8.2	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.4	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205753 **Received** : 24 Jun 2024
Lab Number : 06218000 **Tested** : 25 Jun 2024
Unique Number : 11096197 **Diagnosed** : 25 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TAN Man, 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)