



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area

[W64408]

Machine Id

KUBOTA KX080 JKUK0804C01H46808

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: W64408)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204263	JR0177456	JR0128137
Sample Date		Client Info		22 Feb 2024	28 Aug 2023	01 Jun 2022
Machine Age	hrs	Client Info		3769	2536	2536
Oil Age	hrs	Client Info		1233	2536	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				ABNORMAL	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	14	17	41
Chromium	ppm	ASTM D5185m	>20	0	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	4	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	3
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

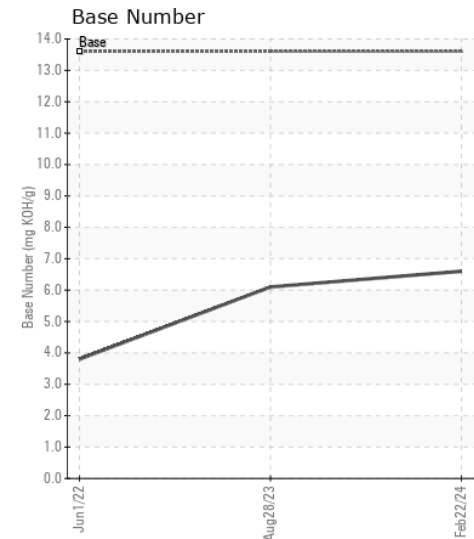
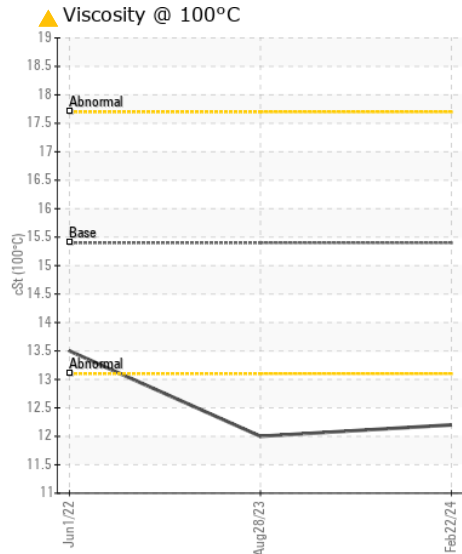
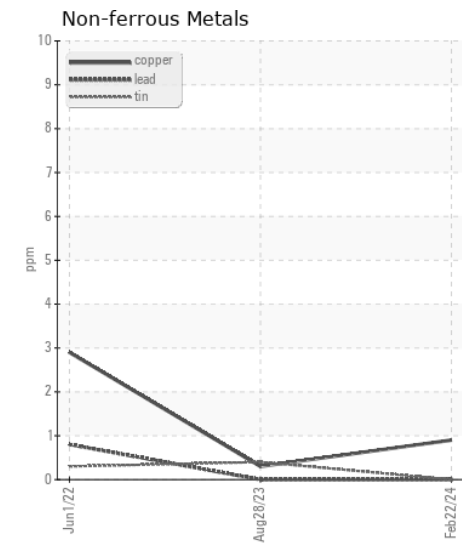
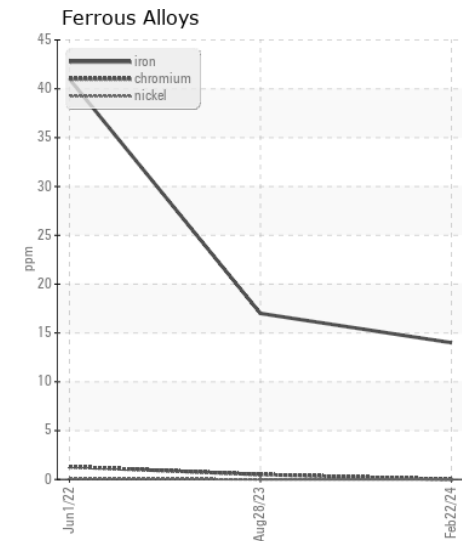
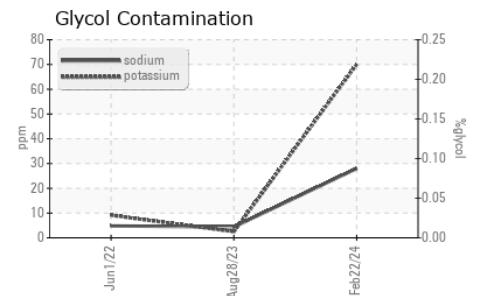
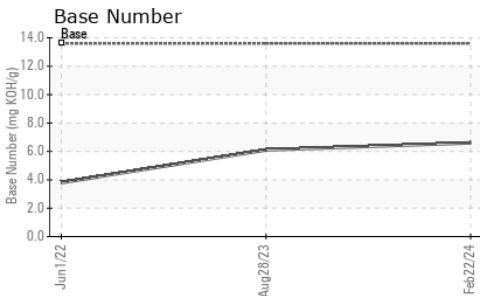
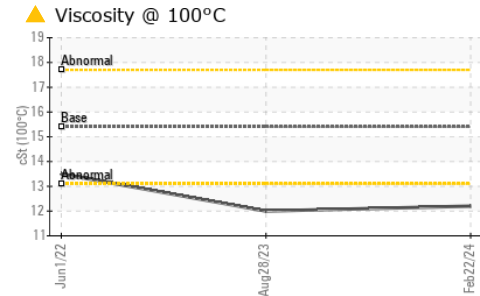
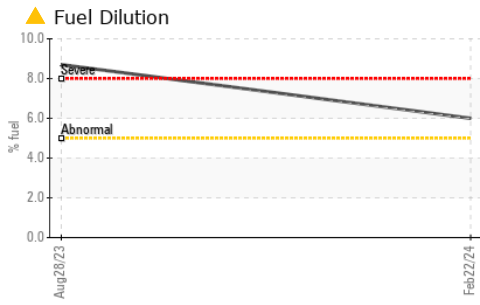
Sodium and/or potassium levels are high. There is a moderate amount of fuel present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	8	9	7
Potassium	ppm	ASTM D5185m	>20	70	2	9
Fuel	%	ASTM D3524	>5	6.0	8.7	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.5	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	25.4	30.0
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		28	4	5
Boron	ppm	ASTM D5185m		148	96	43
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		257	199	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		867	710	16
Calcium	ppm	ASTM D5185m		1489	1486	2328
Phosphorus	ppm	ASTM D5185m		938	830	937
Zinc	ppm	ASTM D5185m		1121	1055	1197
Sulfur	ppm	ASTM D5185m		3164	3441	3284
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	23.4	26.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.6	6.1	3.8
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	12.0	13.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204263 **Received** : 27 Feb 2024
Lab Number : 06101423 **Tested** : 04 Mar 2024
Unique Number : 10899653 **Diagnosed** : 04 Mar 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: Glycol, PercentFuel, 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)