James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 550K-II 1T0550KKCJF334969
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

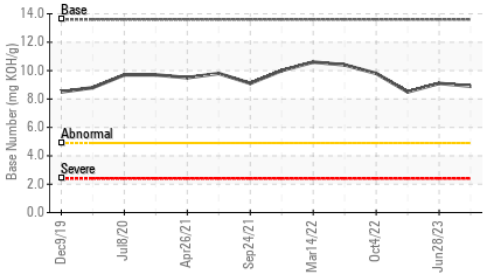
There is no indication of any contamination in the oil.

FLUID CONDITION

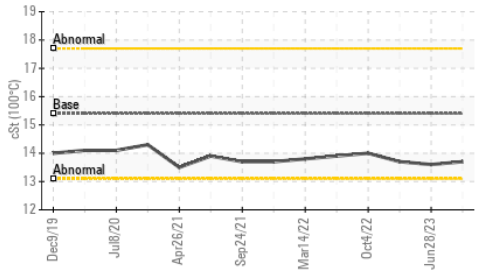
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207972	JR0176778	JR0160686
Sample Date		Client Info		18 Mar 2024	28 Jun 2023	02 Mar 2023
Machine Age	hrs	Client Info		3987	3777	3536
Oil Age	hrs	Client Info		210	241	236
Filter Age	hrs	Client Info		210	241	236
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	15	9	9
Chromium	ppm	ASTM D5185m	>11	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	6	4	3
Lead	ppm	ASTM D5185m	>26	2	<1	<1
Copper	ppm	ASTM D5185m	>26	2	2	0
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	9	6	6
Potassium	ppm	ASTM D5185m	>20	4	1	1
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	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.0	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.3	21.3
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
Sodium	ppm	ASTM D5185m	>31	0	<1	0
Boron	ppm	ASTM D5185m		248	258	236
Barium	ppm	ASTM D5185m		2	0	2
Molybdenum	ppm	ASTM D5185m		278	256	248
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		826	873	729
Calcium	ppm	ASTM D5185m		1489	1501	1405
Phosphorus	ppm	ASTM D5185m		862	920	859
Zinc	ppm	ASTM D5185m		1114	1129	1051
Sulfur	ppm	ASTM D5185m		3232	3717	3161
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	16.2	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	9.1	8.5
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	13.7

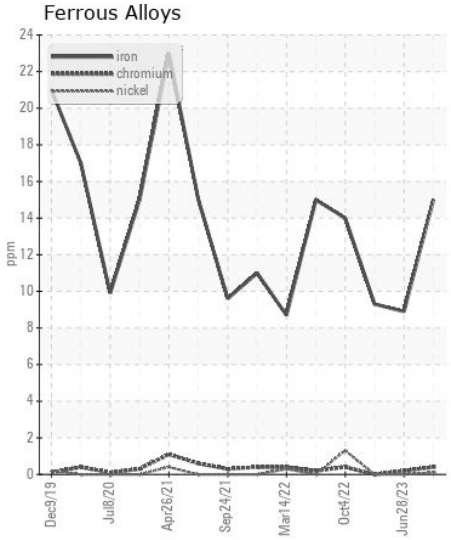
Base Number



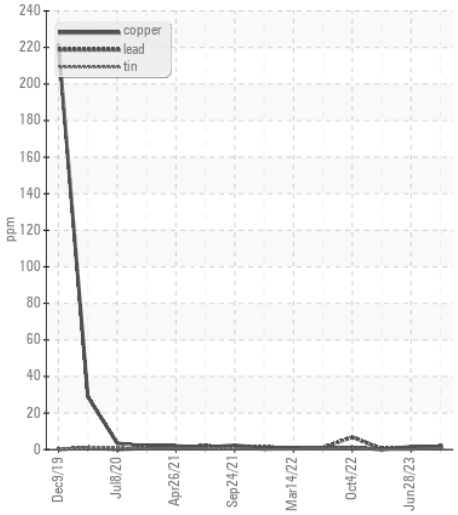
Viscosity @ 100°C



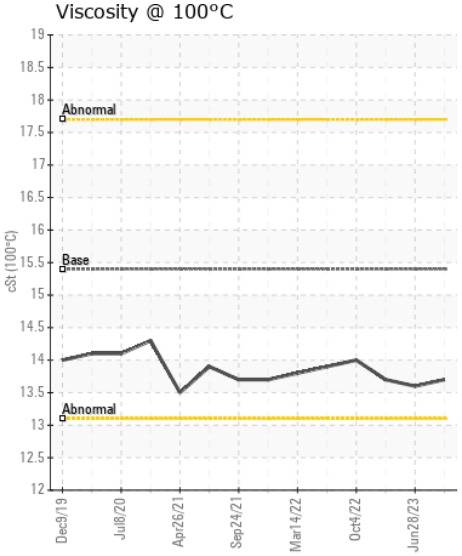
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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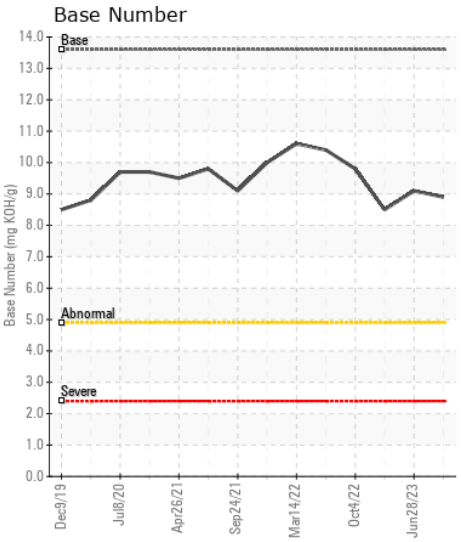

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207972 **Received** : 21 Mar 2024
Lab Number : 06125363 **Tested** : 22 Mar 2024
Unique Number : 10939514 **Diagnosed** : 22 Mar 2024 - Wes Davis
Test Package : CONST (Additional Tests: 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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