James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350G 1FF350GXKHF811885
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

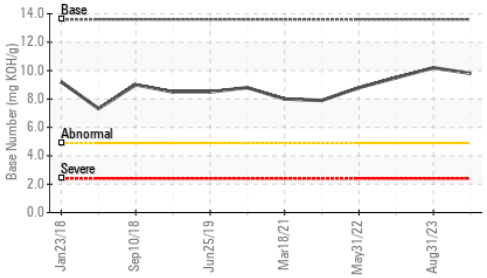
No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

FLUID CONDITION

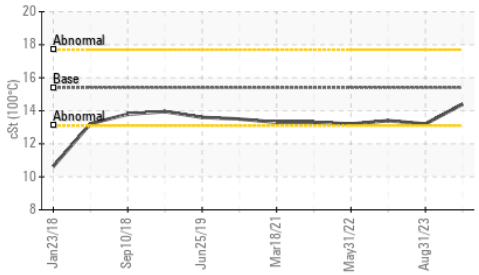
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204380	JR0178427	JR0154374
Sample Date		Client Info		28 Feb 2024	31 Aug 2023	08 Dec 2022
Machine Age	hrs	Client Info		6482	6108	5469
Oil Age	hrs	Client Info		374	639	396
Filter Age	hrs	Client Info		0	0	396
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>51	1	▲ 97	▲ 73
Chromium	ppm	ASTM D5185m	>11	<1	3	2
Nickel	ppm	ASTM D5185m	>5	0	▲ 11	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	5	2
Lead	ppm	ASTM D5185m	>26	0	10	<1
Copper	ppm	ASTM D5185m	>26	<1	▲ 282	2
Tin	ppm	ASTM D5185m	>4	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	6	▲ 47	11
Potassium	ppm	ASTM D5185m	>20	2	▲ 190	3
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	▲ 0.10	NEG
Soot %	%	*ASTM D7844	>3	0	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.5	11.9	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	26.1	23.7
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	1	▲ 1327	6
Boron	ppm	ASTM D5185m		239	67	142
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		213	300	244
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m		747	846	820
Calcium	ppm	ASTM D5185m		1212	1450	1404
Phosphorus	ppm	ASTM D5185m		794	804	856
Zinc	ppm	ASTM D5185m		1003	1045	1065
Sulfur	ppm	ASTM D5185m		2724	3577	3529
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	18.3	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.8	10.2	9.5
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	13.2	13.4

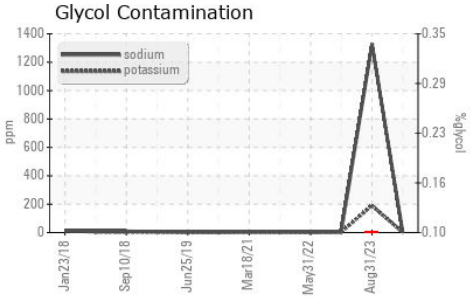
Base Number



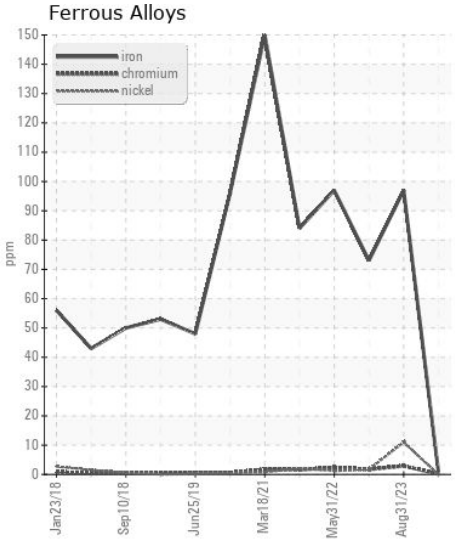
Viscosity @ 100°C



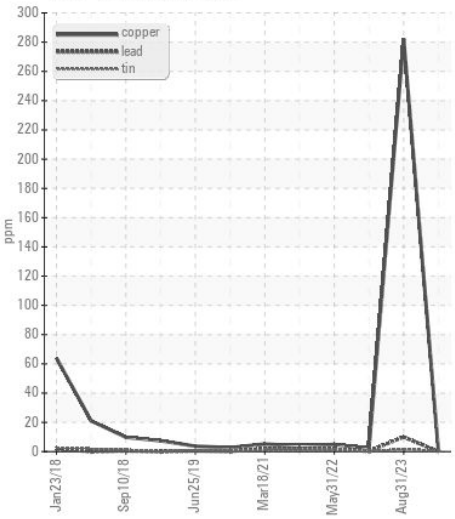
Glycol Contamination



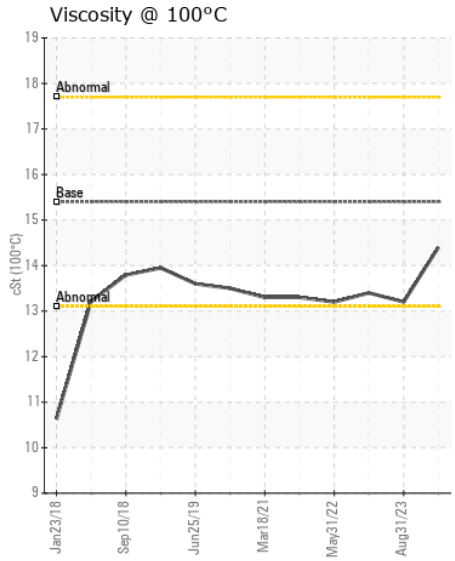
Ferrous Alloys



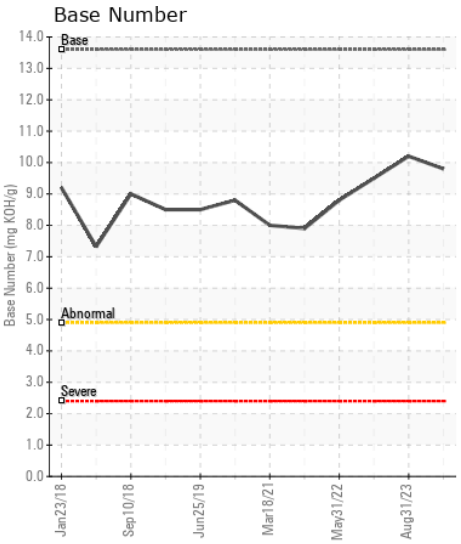
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204380
Lab Number : 06105883
Unique Number : 10909380
Test Package : CONST (Additional Tests: TBN)

Received : 01 Mar 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Jonathan Hester

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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