James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 300G 1FF300GXTNF732045
Component
Diesel Engine
Fluid
JD PLUS-50 BREAK IN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

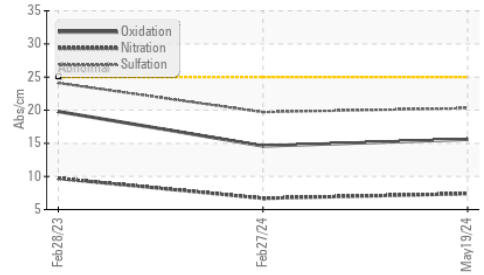
There is no indication of any contamination in the oil.

FLUID CONDITION

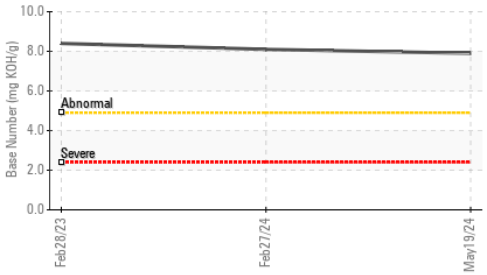
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212683	JR0202754	JR0161052
Sample Date		Client Info		19 May 2024	27 Feb 2024	28 Feb 2023
Machine Age	hrs	Client Info		2468	2100	587
Oil Age	hrs	Client Info		368	1513	587
Filter Age	hrs	Client Info		0	0	587
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	16	13	39
Chromium	ppm	ASTM D5185m	>11	1	<1	1
Nickel	ppm	ASTM D5185m	>5	4	4	8
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>31	5	1	4
Lead	ppm	ASTM D5185m	>26	<1	<1	<1
Copper	ppm	ASTM D5185m	>26	4	2	▲ 243
Tin	ppm	ASTM D5185m	>4	1	<1	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	11	6	10
Potassium	ppm	ASTM D5185m	>20	2	<1	3
Fuel		WC Method	>2.1	<1.0	<1.0	0.2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.7	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.7	24.1
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	4	2	5
Boron	ppm	ASTM D5185m		199	115	120
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		218	71	235
Manganese	ppm	ASTM D5185m		1	<1	6
Magnesium	ppm	ASTM D5185m		797	895	754
Calcium	ppm	ASTM D5185m		1415	1479	1474
Phosphorus	ppm	ASTM D5185m		965	1079	845
Zinc	ppm	ASTM D5185m		1098	1548	1028
Sulfur	ppm	ASTM D5185m		3280	3564	2702
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	14.6	19.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	8.1	8.4
Visc @ 100°C	cSt	ASTM D445		13.7	13.6	● 11.6

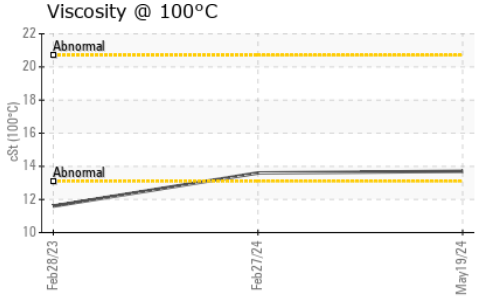
FT-IR (Direct Trend)



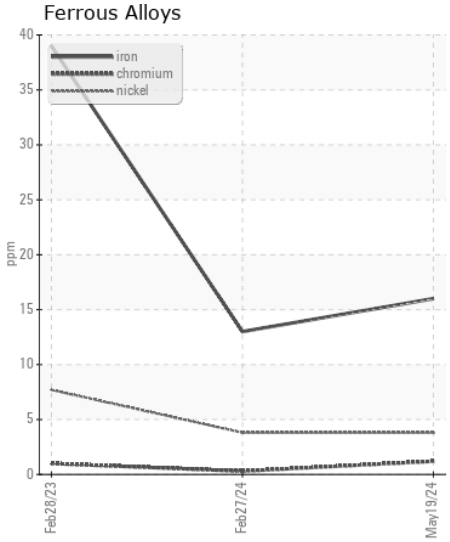
Base Number



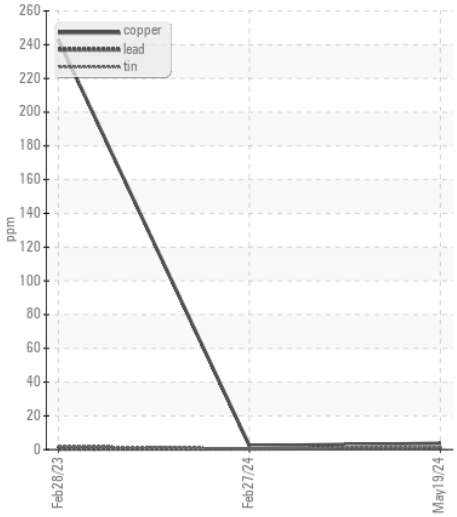
Viscosity @ 100°C



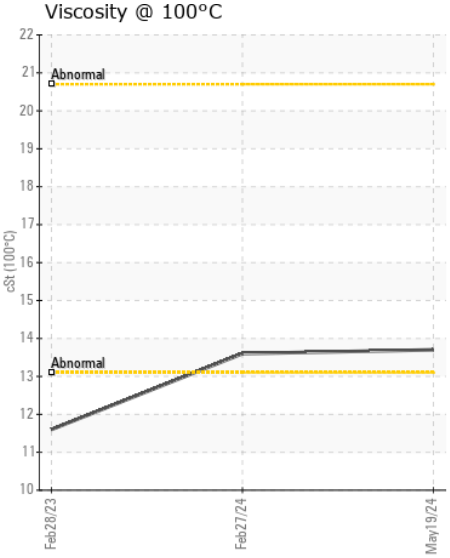
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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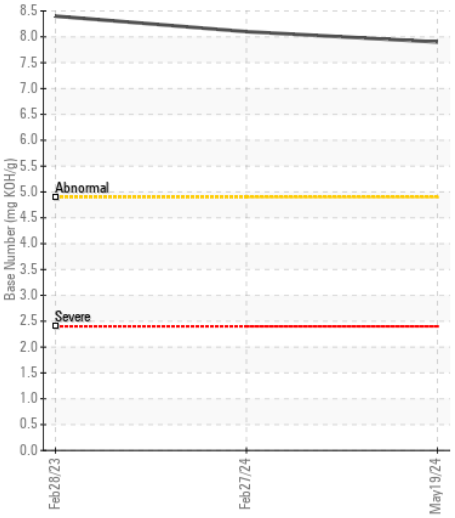

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212683 **Received** : 21 May 2024
Lab Number : 06185956 **Tested** : 22 May 2024
Unique Number : 11042708 **Diagnosed** : 23 May 2024 - Jonathan Hester
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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