James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 210G 1FF210GXCMF529606
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

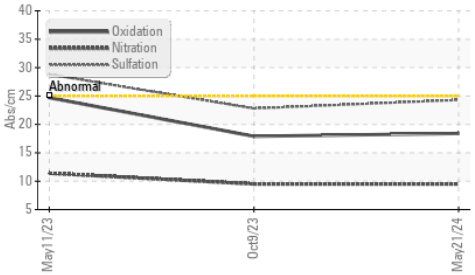
There is no indication of any contamination in the oil.

FLUID CONDITION

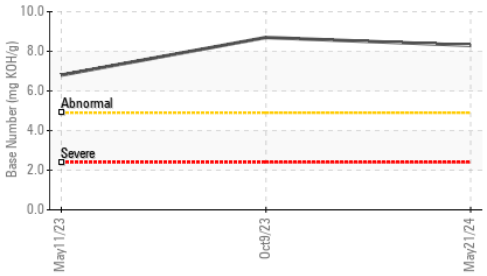
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213747	JR0158226	JR0158064
Sample Date		Client Info		21 May 2024	09 Oct 2023	11 May 2023
Machine Age	hrs	Client Info		3058	2392	1942
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	22	18	49
Chromium	ppm	ASTM D5185m	>11	0	<1	2
Nickel	ppm	ASTM D5185m	>5	4	3	6
Titanium	ppm	ASTM D5185m		0	<1	8
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	4	7
Lead	ppm	ASTM D5185m	>26	0	<1	7
Copper	ppm	ASTM D5185m	>26	2	5	21
Tin	ppm	ASTM D5185m	>4	0	<1	3
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	7	7	10
Potassium	ppm	ASTM D5185m	>20	0	0	3
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	0.5	0.4	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.5	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	22.8	28.8
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	2	4	5
Boron	ppm	ASTM D5185m		161	161	51
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		261	232	248
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m		846	821	885
Calcium	ppm	ASTM D5185m		1556	1546	1640
Phosphorus	ppm	ASTM D5185m		932	920	941
Zinc	ppm	ASTM D5185m		1134	1140	1217
Sulfur	ppm	ASTM D5185m		3304	2958	3752
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	17.9	24.7
Base Number (BN)	mg KOH/g	ASTM D2896		8.3	8.7	6.8
Visc @ 100°C	cSt	ASTM D445		14.0	13.9	13.7

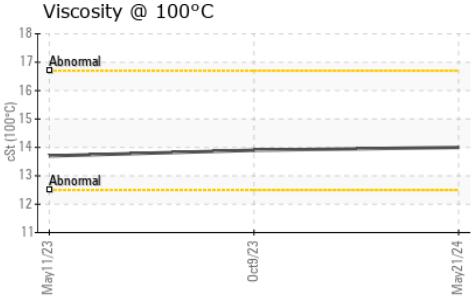
FT-IR (Direct Trend)



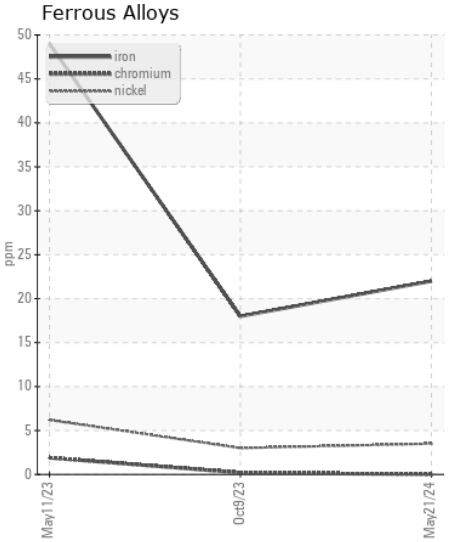
Base Number



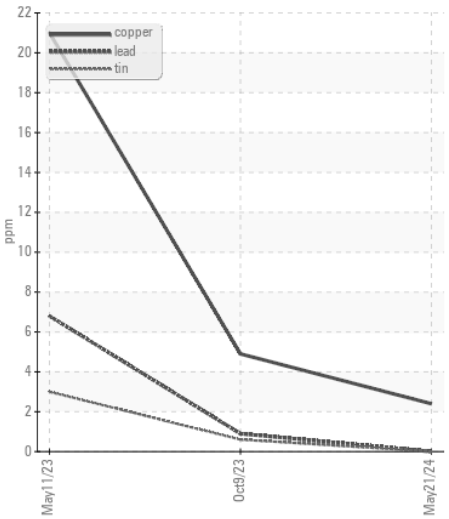
Viscosity @ 100°C



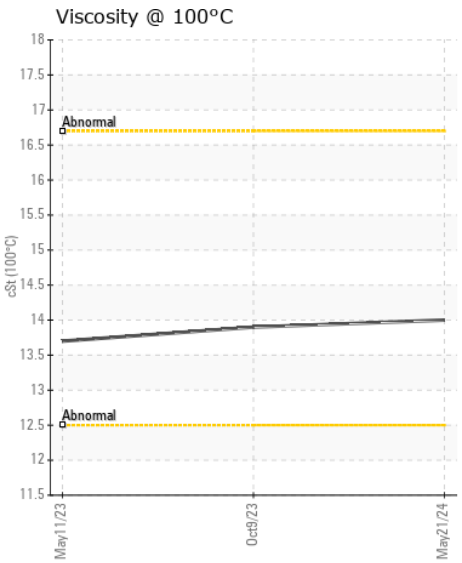
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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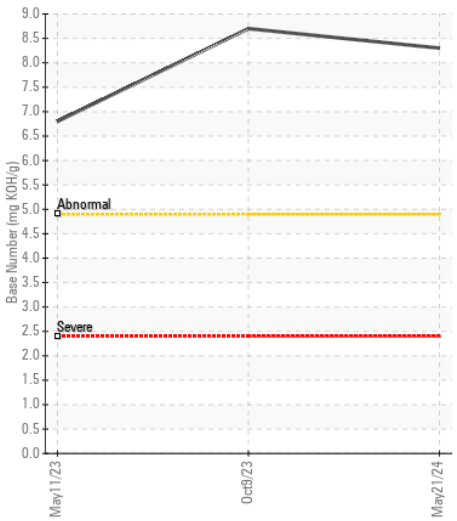

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213747
Lab Number : 06187452
Unique Number : 11044204
Test Package : CONST (Additional Tests: TBN)

Received : 22 May 2024
Tested : 23 May 2024
Diagnosed : 23 May 2024 - Wes Davis

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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