CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 210G 1FF210GXANF530128
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

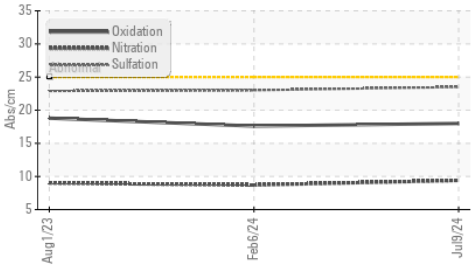
There is no indication of any contamination in the oil.

FLUID CONDITION

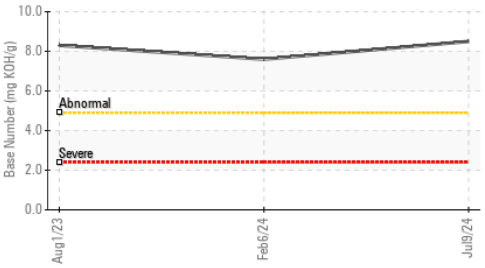
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0198406	JR0203587	JR0178014
Sample Date		Client Info		09 Jul 2024	06 Feb 2024	01 Aug 2023
Machine Age	hrs	Client Info		1456	997	465
Oil Age	hrs	Client Info		459	532	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				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	22	24	29
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	4	5	3
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	3	4
Lead	ppm	ASTM D5185m	>26	0	0	6
Copper	ppm	ASTM D5185m	>26	14	▲ 82	▲ 444
Tin	ppm	ASTM D5185m	>4	0	<1	2
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	7	8	11
Potassium	ppm	ASTM D5185m	>20	<1	3	4
Fuel		WC Method	>2.1	<1.0	<1.0	0.7
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.7	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	23.0	22.9
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	<1	7
Boron	ppm	ASTM D5185m		196	234	224
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		240	263	230
Manganese	ppm	ASTM D5185m		<1	<1	3
Magnesium	ppm	ASTM D5185m		790	792	770
Calcium	ppm	ASTM D5185m		1518	1384	1479
Phosphorus	ppm	ASTM D5185m		926	853	877
Zinc	ppm	ASTM D5185m		1068	1068	1107
Sulfur	ppm	ASTM D5185m		3235	2819	3255
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	17.6	18.8
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	7.6	8.3
Visc @ 100°C	cSt	ASTM D445		13.5	13.1	11.1

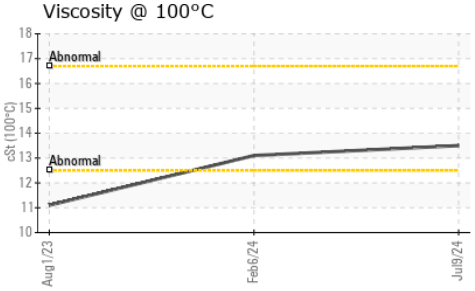
FT-IR (Direct Trend)



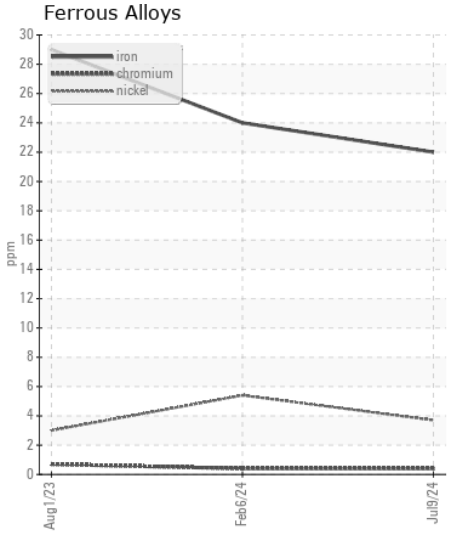
Base Number



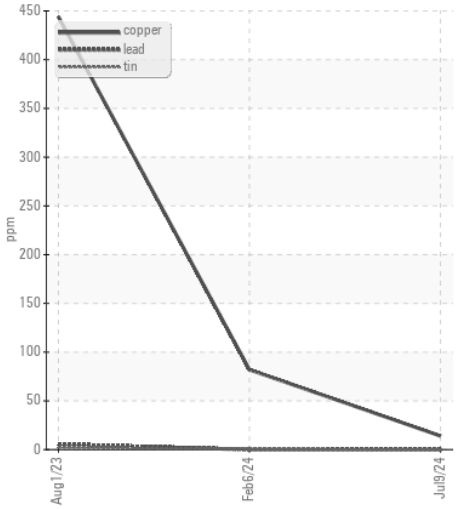
Viscosity @ 100°C



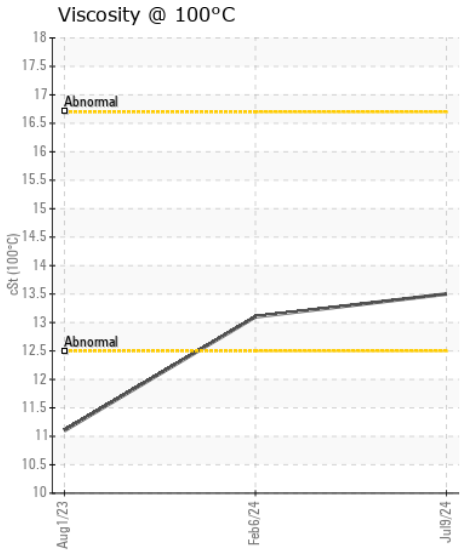
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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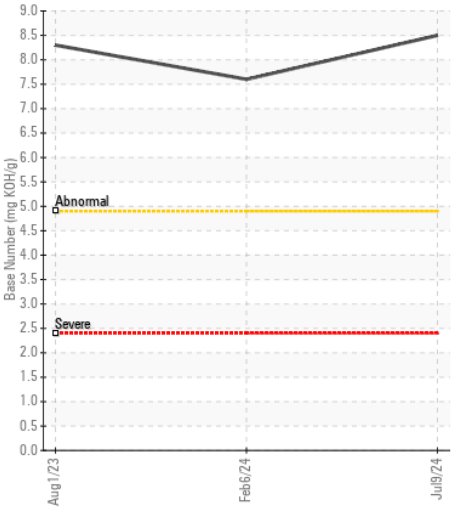

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198406 **Received** : 15 Jul 2024
Lab Number : 06235673 **Tested** : 16 Jul 2024
Unique Number : 11124507 **Diagnosed** : 16 Jul 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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