James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 210P 1FF210PAVPF000576
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

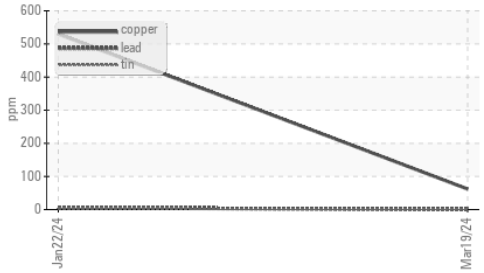
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0201275	JR0200967	---
Sample Date		Client Info		19 Mar 2024	22 Jan 2024	---
Machine Age	hrs	Client Info		1067	532	---
Oil Age	hrs	Client Info		535	532	---
Filter Age	hrs	Client Info		535	532	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>51	19	43	---
Chromium	ppm	ASTM D5185m	>11	0	1	---
Nickel	ppm	ASTM D5185m	>5	2	5	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	2	7	---
Lead	ppm	ASTM D5185m	>26	0	6	---
Copper	ppm	ASTM D5185m	>26	▲ 62	▲ 530	---
Tin	ppm	ASTM D5185m	>4	0	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>22	6	9	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Fuel		WC Method	>2.1	<1.0	0.5	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	23.1	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>31	3	4	---
Boron	ppm	ASTM D5185m		208	189	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		249	204	---
Manganese	ppm	ASTM D5185m		<1	5	---
Magnesium	ppm	ASTM D5185m		845	852	---
Calcium	ppm	ASTM D5185m		1482	1615	---
Phosphorus	ppm	ASTM D5185m		926	949	---
Zinc	ppm	ASTM D5185m		1107	1002	---
Sulfur	ppm	ASTM D5185m		3334	2776	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	19.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	8.9	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	11.1	---

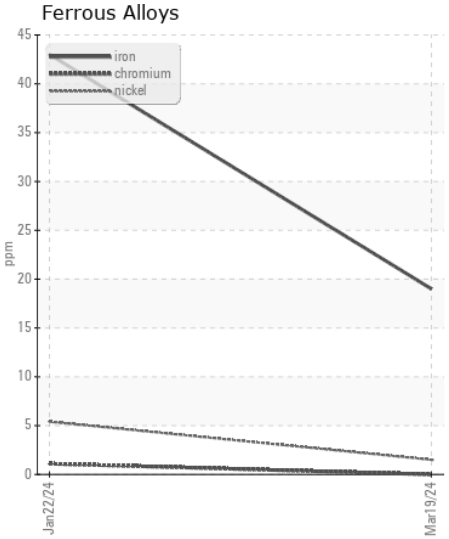
Report Id: RWMNEW [WUSCAR] 06123322 (Generated: 03/22/2024 10:54:20) Rev: 1

Submitted By: Dylan Sanderson

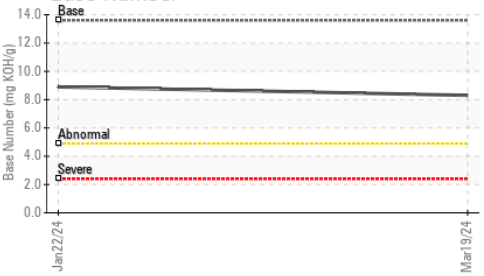
Non-ferrous Metals



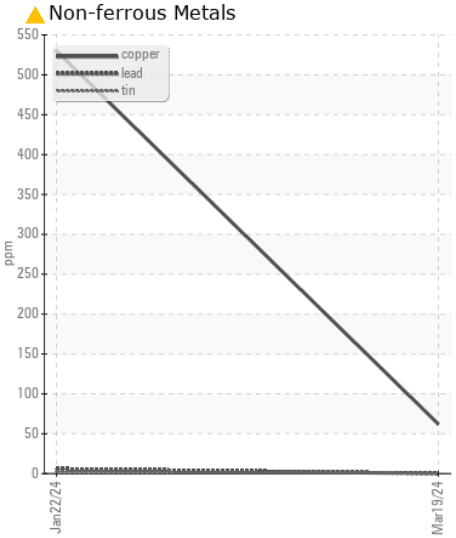
Ferrous Alloys



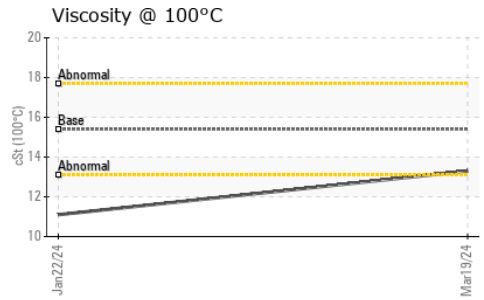
Base Number



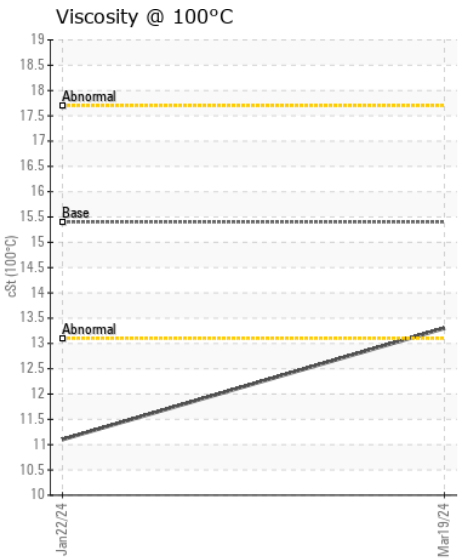
Non-ferrous Metals



Viscosity @ 100°C



Viscosity @ 100°C



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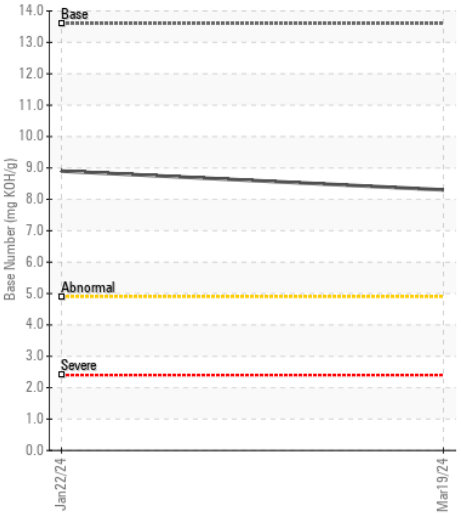

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0201275
Lab Number : 06123322
Unique Number : 10937473
Test Package : CONST (Additional Tests: TBN)

Received : 20 Mar 2024
Tested : 21 Mar 2024
Diagnosed : 22 Mar 2024 - Sean Felton

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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