James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 35G 1FF035GXCMK295887
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

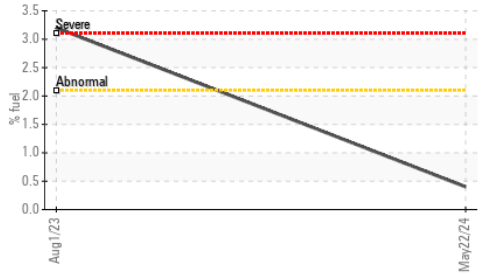
Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

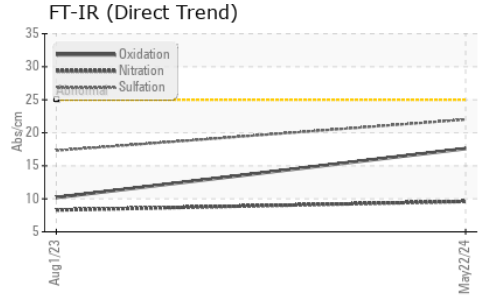
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212656	JR0175568	---
Sample Date		Client Info		22 May 2024	01 Aug 2023	---
Machine Age	hrs	Client Info		997	476	---
Oil Age	hrs	Client Info		476	476	---
Filter Age	hrs	Client Info		0	476	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>51	29	70	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>31	9	4	---
Lead	ppm	ASTM D5185m	>26	1	1	---
Copper	ppm	ASTM D5185m	>26	4	15	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>22	18	58	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Fuel	%	ASTM D3524	>2.1	0.4	▲ 3.2	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	9.6	8.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	17.3	---
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	5	16	---
Boron	ppm	ASTM D5185m		250	47	---
Barium	ppm	ASTM D5185m		<1	18	---
Molybdenum	ppm	ASTM D5185m		258	118	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		810	21	---
Calcium	ppm	ASTM D5185m		1504	4332	---
Phosphorus	ppm	ASTM D5185m		901	1160	---
Zinc	ppm	ASTM D5185m		1114	1390	---
Sulfur	ppm	ASTM D5185m		3382	7795	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	10.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	12.6	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	▲ 9.6	---

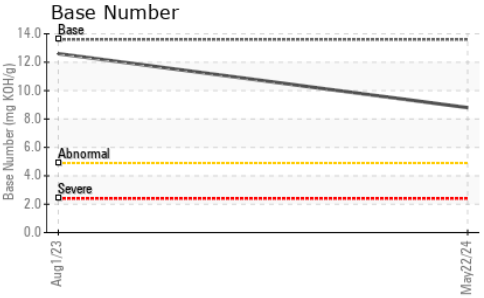
Fuel Dilution



FT-IR (Direct Trend)

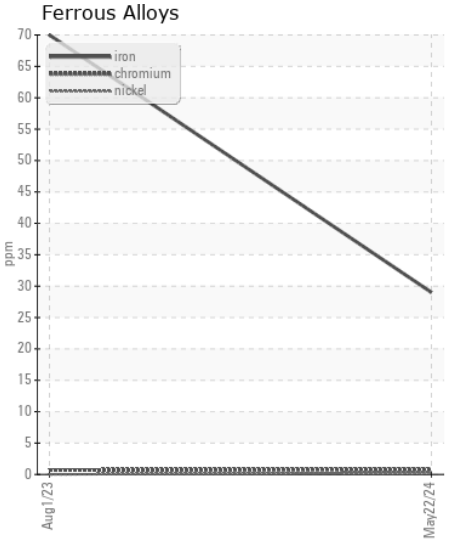


Base Number

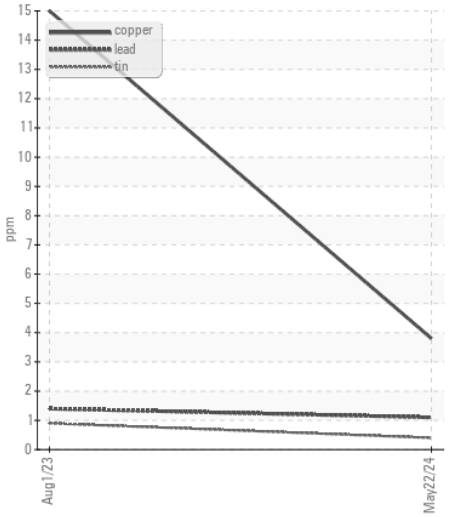


Viscosity @ 100°C

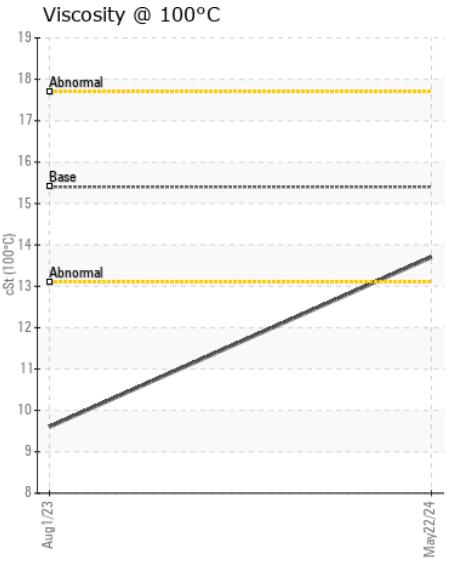
Ferrous Alloys



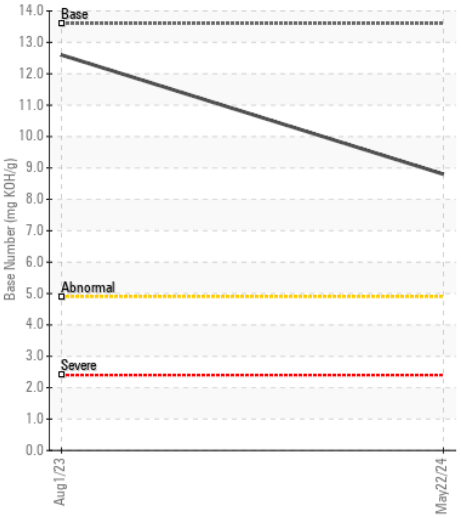
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212656 **Received** : 23 May 2024
Lab Number : 06188974 **Tested** : 28 May 2024
Unique Number : 11045726 **Diagnosed** : 28 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: PercentFuel, 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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