James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Area
[EAST RIVER AGG]
Machine Id
JOHN DEERE 350G 811179
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

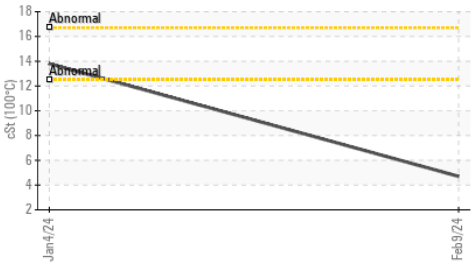
FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

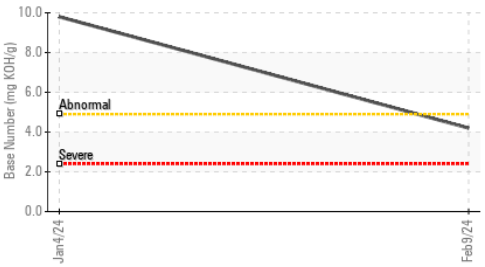
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0170739	JR0170800	---
Sample Date		Client Info		09 Feb 2024	04 Jan 2024	---
Machine Age	hrs	Client Info		0	7707	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				SEVERE	NORMAL	---
Iron	ppm	ASTM D5185m	>51	16	2	---
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	0	0	---
Aluminum	ppm	ASTM D5185m	>31	2	3	---
Lead	ppm	ASTM D5185m	>26	<1	0	---
Copper	ppm	ASTM D5185m	>26	2	4	---
Tin	ppm	ASTM D5185m	>4	0	0	---
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	7	6	---
Potassium	ppm	ASTM D5185m	>20	1	3	---
Fuel	%	ASTM D3524	>2.1	43.1	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0	---
Nitration	Abs/cm	*ASTM D7624	>20	6.6	5.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.4	19.3	---
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	0	<1	---
Boron	ppm	ASTM D5185m		44	258	---
Barium	ppm	ASTM D5185m		12	11	---
Molybdenum	ppm	ASTM D5185m		52	223	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		30	671	---
Calcium	ppm	ASTM D5185m		1213	1279	---
Phosphorus	ppm	ASTM D5185m		639	862	---
Zinc	ppm	ASTM D5185m		659	934	---
Sulfur	ppm	ASTM D5185m		2499	3044	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0	14.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		4.2	9.8	---
Visc @ 100°C	cSt	ASTM D445		4.7	13.8	---

Fuel Dilution

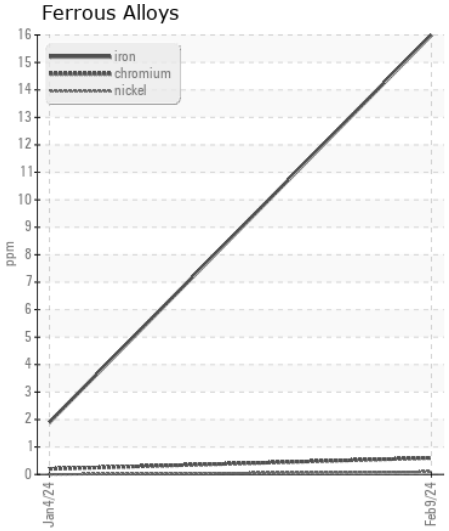
Viscosity @ 100°C



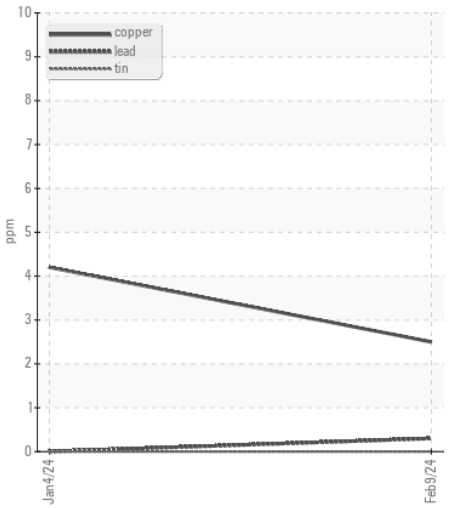
Base Number



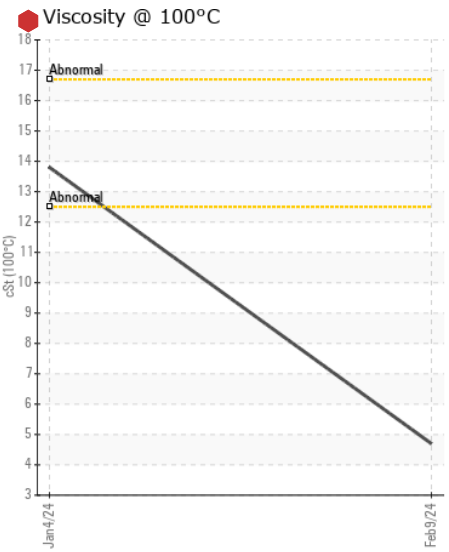
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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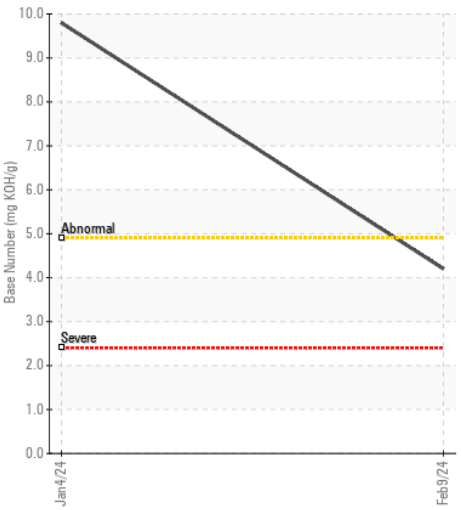

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0170739
Lab Number : 06088645
Unique Number : 10876090
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)
Received : 14 Feb 2024
Tested : 16 Feb 2024
Diagnosed : 16 Feb 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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