James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 250G 1FF250GXKNF611855
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

Metal levels are typical for a new component breaking in.

CONTAMINATION

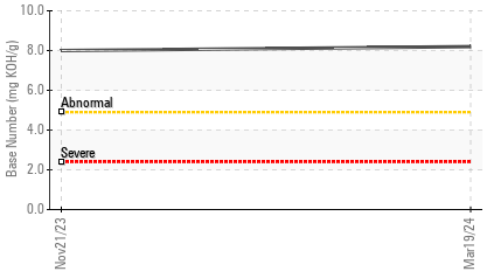
There is no indication of any contamination in the oil.

FLUID CONDITION

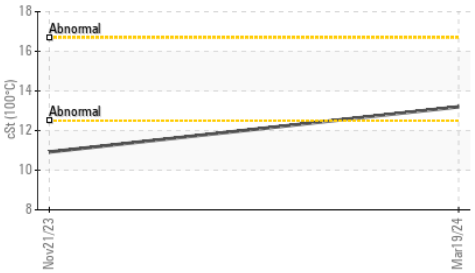
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203471	JR0193329	---
Sample Date		Client Info		19 Mar 2024	21 Nov 2023	---
Machine Age	hrs	Client Info		993	586	---
Oil Age	hrs	Client Info		407	586	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>51	28	44	---
Chromium	ppm	ASTM D5185m	>11	<1	1	---
Nickel	ppm	ASTM D5185m	>5	7	12	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>31	5	4	---
Lead	ppm	ASTM D5185m	>26	<1	3	---
Copper	ppm	ASTM D5185m	>26	73	▲ 378	---
Tin	ppm	ASTM D5185m	>4	1	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>22	9	11	---
Potassium	ppm	ASTM D5185m	>20	3	0	---
Fuel		WC Method	>2.1	<1.0	0.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	25.0	---
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	<1	7	---
Boron	ppm	ASTM D5185m		182	159	---
Barium	ppm	ASTM D5185m		3	2	---
Molybdenum	ppm	ASTM D5185m		276	221	---
Manganese	ppm	ASTM D5185m		1	4	---
Magnesium	ppm	ASTM D5185m		837	778	---
Calcium	ppm	ASTM D5185m		1541	1589	---
Phosphorus	ppm	ASTM D5185m		920	905	---
Zinc	ppm	ASTM D5185m		1121	1051	---
Sulfur	ppm	ASTM D5185m		2980	2399	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	21.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	8.0	---
Visc @ 100°C	cSt	ASTM D445		13.2	10.92	---

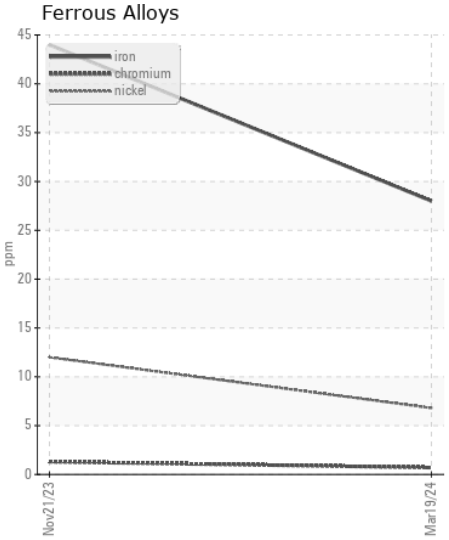
Base Number



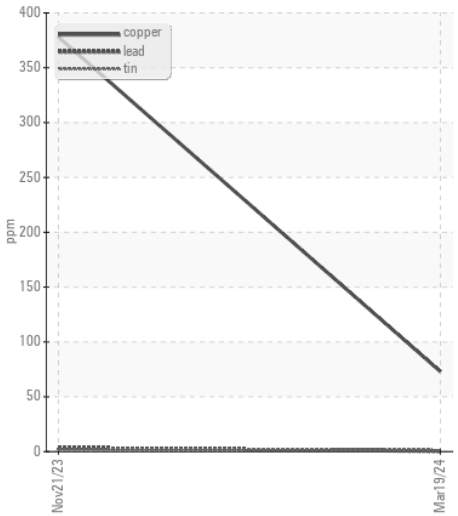
Viscosity @ 100°C



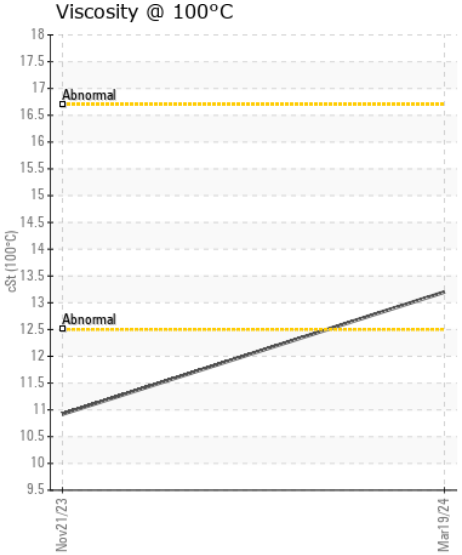
Ferrous Alloys



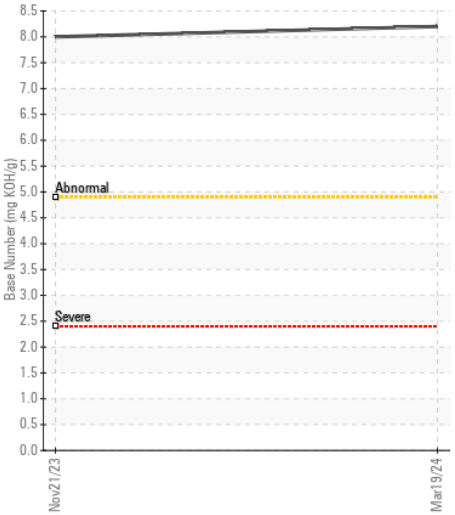
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203471
Lab Number : 06124758
Unique Number : 10938909
Test Package : CONST (Additional Tests: TBN)

Received : 21 Mar 2024
Tested : 22 Mar 2024
Diagnosed : 22 Mar 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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