James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
JOHN DEERE 350G TB55 (S/N E809970)
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

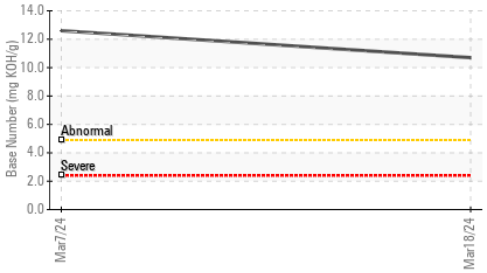
Sodium and/or potassium levels are high.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

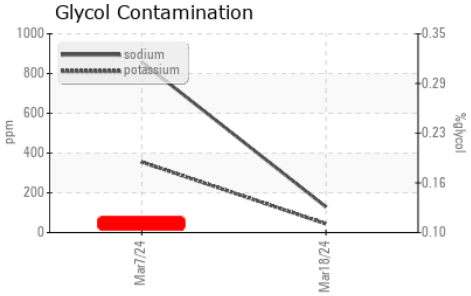
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0138438	JR0204893	---
Sample Date		Client Info		18 Mar 2024	07 Mar 2024	---
Machine Age	hrs	Client Info		7870	7825	---
Oil Age	hrs	Client Info		0	350	---
Filter Age	hrs	Client Info		0	350	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	SEVERE	---
Iron	ppm	ASTM D5185m	>51	12	▲ 71	---
Chromium	ppm	ASTM D5185m	>11	0	2	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>31	0	2	---
Lead	ppm	ASTM D5185m	>26	0	2	---
Copper	ppm	ASTM D5185m	>26	0	3	---
Tin	ppm	ASTM D5185m	>4	0	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>22	9	▲ 34	---
Potassium	ppm	ASTM D5185m	>20	▲ 44	▲ 355	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol	%	*ASTM D2982		NEG	▲ 0.12	---
Soot %	%	*ASTM D7844	>3	0.1	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	5.5	11.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	24.5	---
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	▲ 129	▲ 858	---
Boron	ppm	ASTM D5185m		58	32	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		48	87	---
Manganese	ppm	ASTM D5185m		0	1	---
Magnesium	ppm	ASTM D5185m		503	546	---
Calcium	ppm	ASTM D5185m		1803	1917	---
Phosphorus	ppm	ASTM D5185m		836	962	---
Zinc	ppm	ASTM D5185m		958	1030	---
Sulfur	ppm	ASTM D5185m		3423	3111	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	23.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		10.7	12.6	---
Visc @ 100°C	cSt	ASTM D445		12.8	13.0	---

Base Number

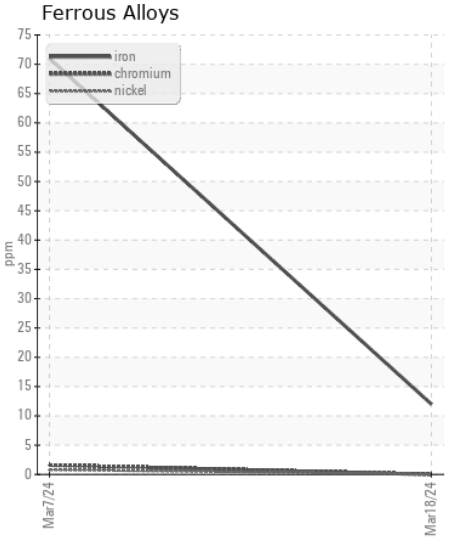


Viscosity @ 100°C

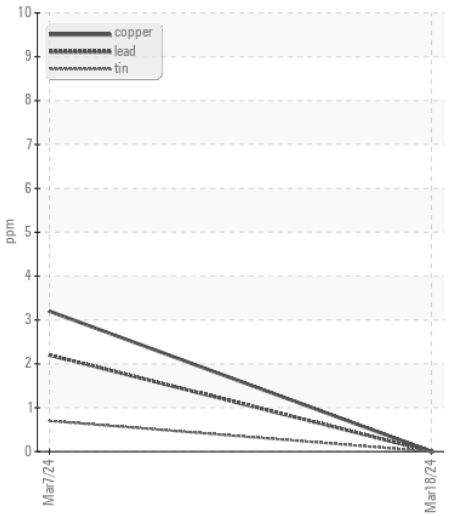
Glycol Contamination



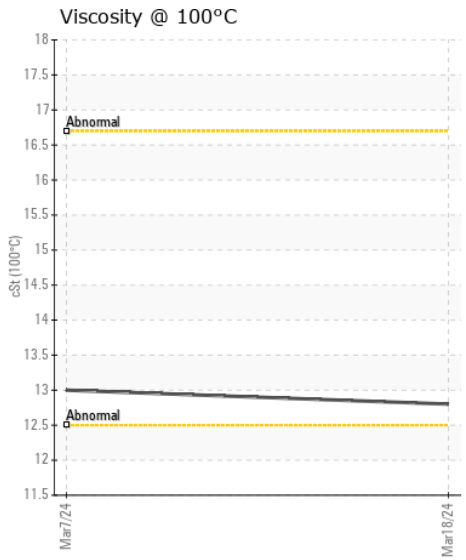
Ferrous Alloys



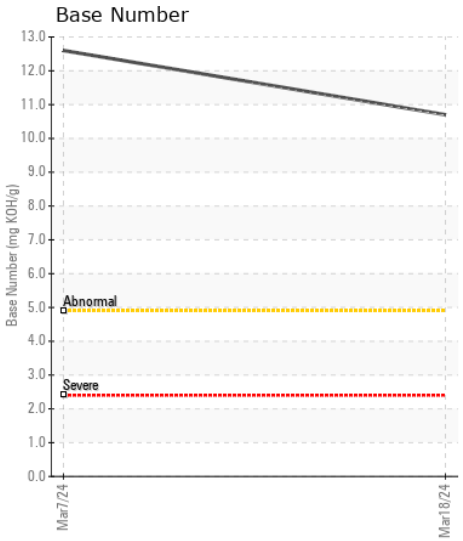
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0138438	**Received**	: 19 Mar 2024
Lab Number	: 06122048	**Tested**	: 21 Mar 2024
Unique Number	: 10936199	**Diagnosed**	: 21 Mar 2024 - Jonathan Hester
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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