James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 944K E685597
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.

CONTAMINATION

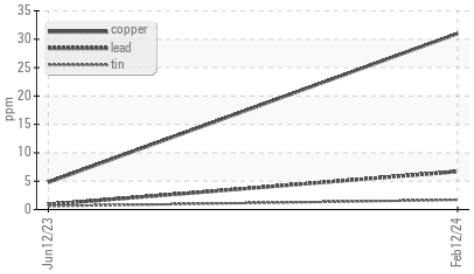
There is no indication of any contamination in the oil.

FLUID CONDITION

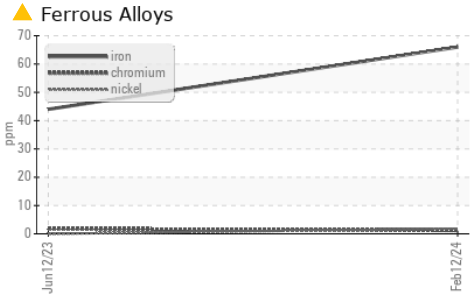
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204568	JR0174125	---
Sample Date		Client Info		12 Feb 2024	12 Jun 2023	---
Machine Age	hrs	Client Info		9558	8944	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>51	▲ 66	44	---
Chromium	ppm	ASTM D5185m	>11	1	2	---
Nickel	ppm	ASTM D5185m	>5	2	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	12	25	---
Lead	ppm	ASTM D5185m	>26	7	<1	---
Copper	ppm	ASTM D5185m	>26	▲ 31	5	---
Tin	ppm	ASTM D5185m	>4	2	<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	15	6	---
Potassium	ppm	ASTM D5185m	>20	14	33	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	1.3	1.6	---
Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	24.1	---
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	10	18	---
Boron	ppm	ASTM D5185m		98	22	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		251	47	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		798	517	---
Calcium	ppm	ASTM D5185m		1365	1766	---
Phosphorus	ppm	ASTM D5185m		817	768	---
Zinc	ppm	ASTM D5185m		1064	931	---
Sulfur	ppm	ASTM D5185m		2772	3041	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	21.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	9.9	---
Visc @ 100°C	cSt	ASTM D445		13.1	12.8	---

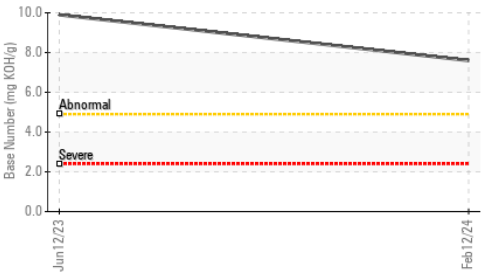
Non-ferrous Metals



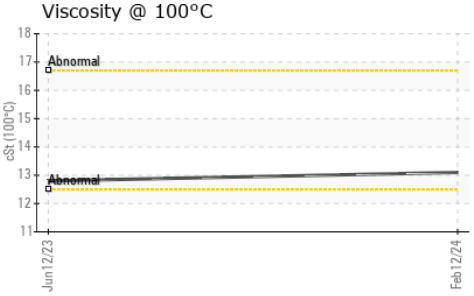
Ferrous Alloys



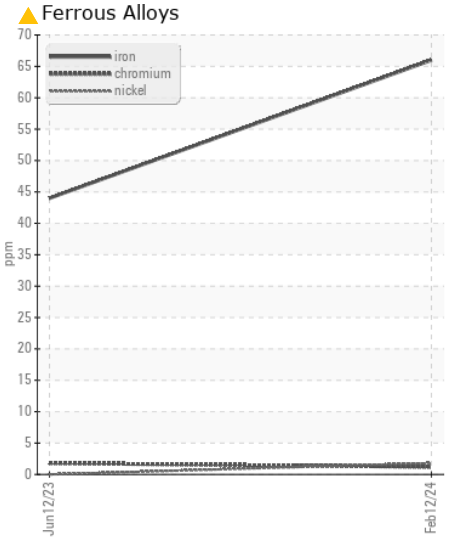
Base Number



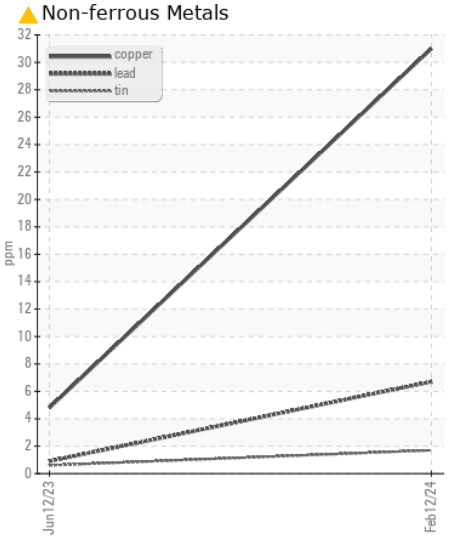
Viscosity @ 100°C



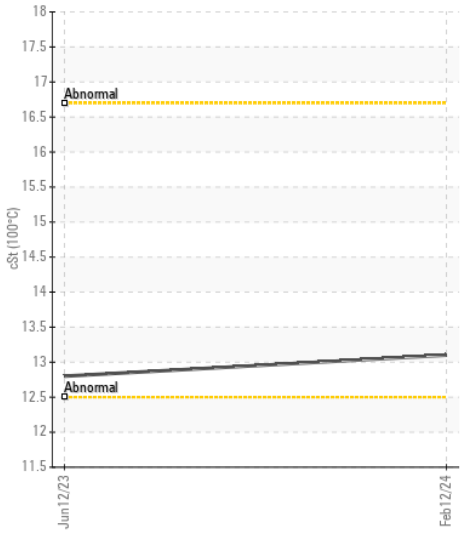
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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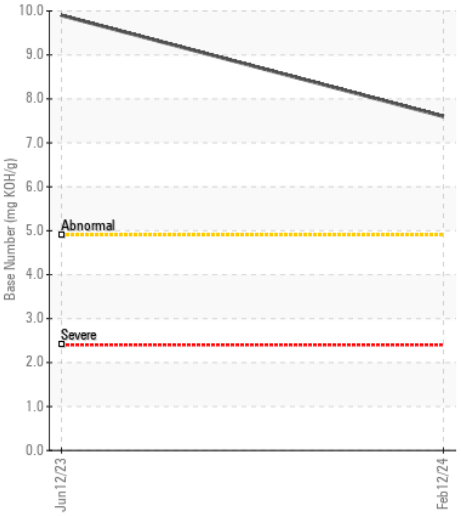

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204568
Lab Number : 06087087
Unique Number : 10874532
Test Package : CONST (Additional Tests: TBN)

Received : 13 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 14 Feb 2024 - Don Baldridge

Certificate L2367

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)

JRE - GREENSBORO
411 SOUTH REGIONAL ROAD
GREENSBORO, NC
US 27409
Contact: NICK GALLAHER
NGALLAHER@JRENET.COM
T: (336)668-2762
F: (336)665-9556