



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W22684 DRISCOLL]

Machine Id
JOHN DEERE 1025R 1LV1025RANN846533

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225846	JR0163931	---
Sample Date		Client Info		02 Jul 2024	25 Apr 2023	---
Machine Age	hrs	Client Info		100	53	---
Oil Age	hrs	Client Info		0	53	---
Filter Age	hrs	Client Info		0	53	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	7	13	---
Chromium	ppm	ASTM D5185m	>11	0	0	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	4	6	---
Lead	ppm	ASTM D5185m	>26	0	0	---
Copper	ppm	ASTM D5185m	>26	4	10	---
Tin	ppm	ASTM D5185m	>4	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

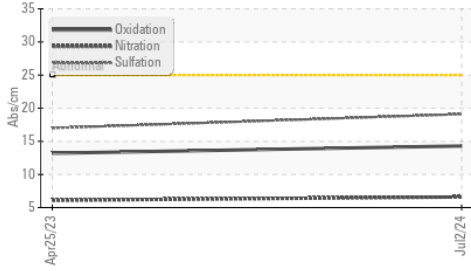
Silicon	ppm	ASTM D5185m	>22	40	▲ 118	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Fuel		WC Method	>2.1	<1.0	0.4	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	17.0	---
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	---

FLUID CONDITION

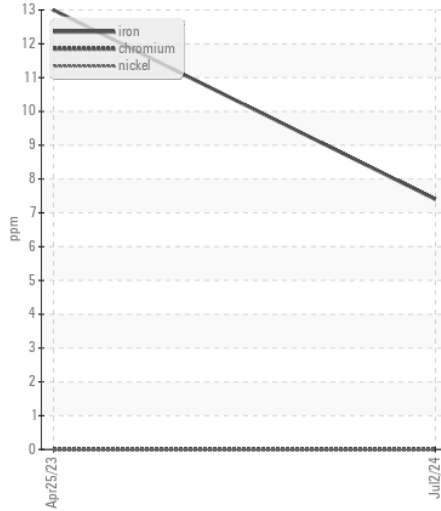
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	6	19	---
Boron	ppm	ASTM D5185m		257	231	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		251	207	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		854	657	---
Calcium	ppm	ASTM D5185m		1686	1903	---
Phosphorus	ppm	ASTM D5185m		1007	930	---
Zinc	ppm	ASTM D5185m		1168	1142	---
Sulfur	ppm	ASTM D5185m		3823	4204	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	13.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.8	8.7	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	● 10.9	---

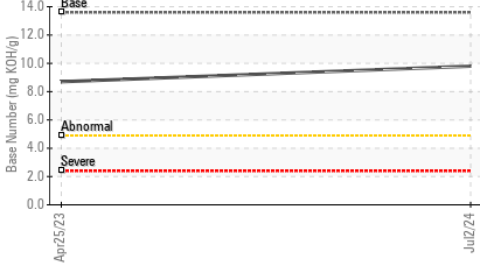
FT-IR (Direct Trend)



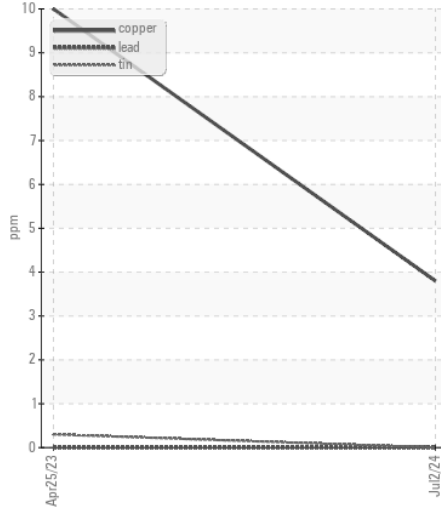
Ferrous Alloys



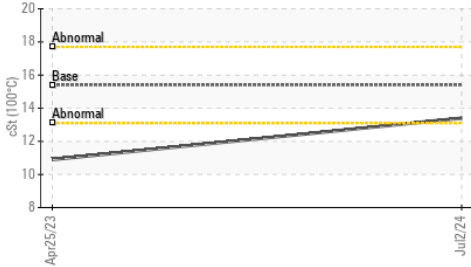
Base Number



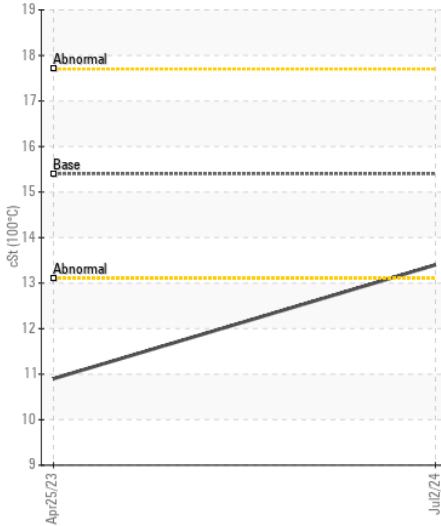
Non-ferrous Metals



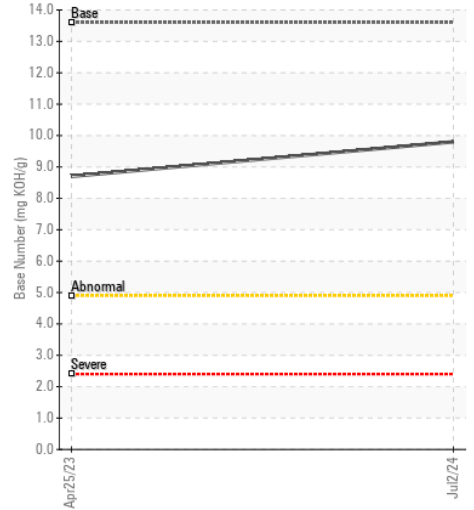
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0225846

Lab Number : 06231081

Unique Number : 11114574

Test Package : CONST (Additional Tests: TBN)

Received : 08 Jul 2024

Tested : 10 Jul 2024

Diagnosed : 10 Jul 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)

JRE - BURKEVILLE

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