



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W65764]

Machine Id

JOHN DEERE 135G 1FF135GXANF503511

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W65764)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0205396	JR0189017	JR0172002
Sample Date		Client Info		04 Apr 2024	03 Nov 2023	06 Jun 2023
Machine Age	hrs	Client Info		1466	968	497
Oil Age	hrs	Client Info		498	471	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	5	7	10
Chromium	ppm	ASTM D5185m	>11	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	4	4
Lead	ppm	ASTM D5185m	>26	0	<1	0
Copper	ppm	ASTM D5185m	>26	19	24	15
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

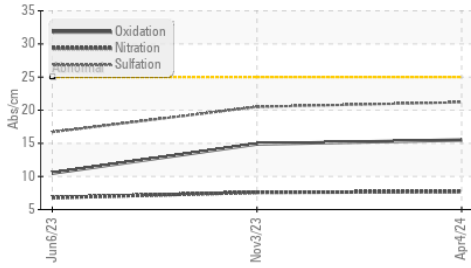
Silicon	ppm	ASTM D5185m	>22	6	11	19
Potassium	ppm	ASTM D5185m	>20	<1	3	<1
Fuel		WC Method	>2.1	<1.0	<1.0	1.6
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.6	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	20.5	16.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG

FLUID CONDITION

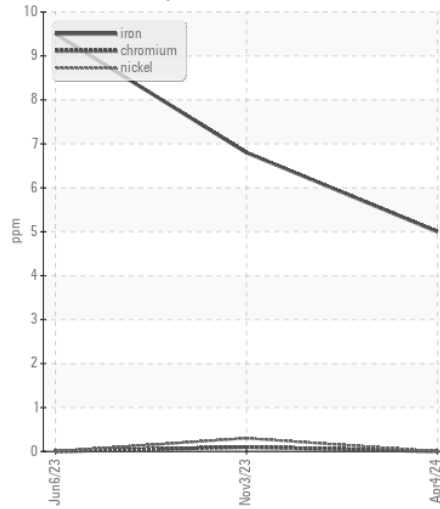
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	2	0	2
Boron	ppm	ASTM D5185m		267	241	182
Barium	ppm	ASTM D5185m		<1	6	0
Molybdenum	ppm	ASTM D5185m		251	220	23
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		831	685	103
Calcium	ppm	ASTM D5185m		1482	1571	2065
Phosphorus	ppm	ASTM D5185m		977	920	965
Zinc	ppm	ASTM D5185m		1139	1081	1204
Sulfur	ppm	ASTM D5185m		3591	2804	3188
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	14.9	10.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	8.4	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	12.5	11.8

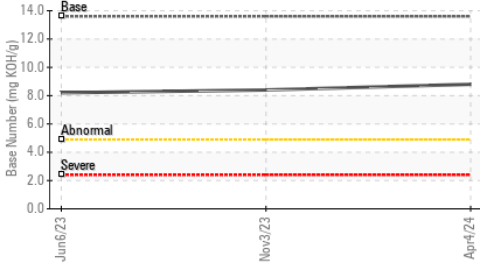
FT-IR (Direct Trend)



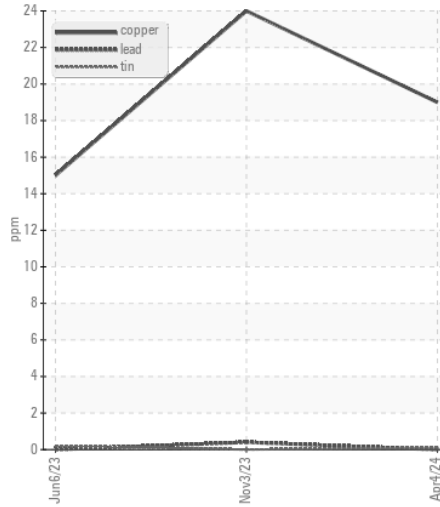
Ferrous Alloys



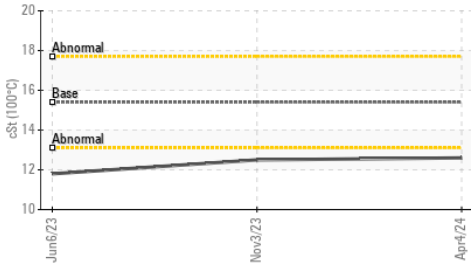
Base Number



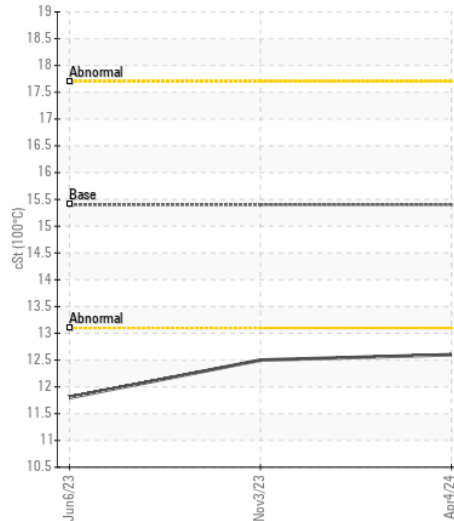
Non-ferrous Metals



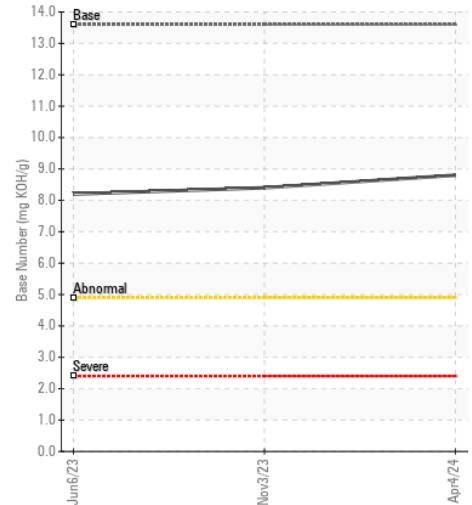
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205396 **Received** : 12 Apr 2024
Lab Number : 06147192 **Tested** : 15 Apr 2024
Unique Number : 10977270 **Diagnosed** : 16 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com

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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