



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350P 1FF350PALNF000389
 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		JR0210888	JR0195217	JR0169571
Sample Date		Client Info		08 Apr 2024	29 Nov 2023	12 Aug 2023
Machine Age	hrs	Client Info		1438	1046	510
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	23	38	52
Chromium	ppm	ASTM D5185m	>11	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	9	11	12
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>31	5	4	5
Lead	ppm	ASTM D5185m	>26	<1	1	5
Copper	ppm	ASTM D5185m	>26	11	▲ 64	▲ 132
Tin	ppm	ASTM D5185m	>4	<1	1	3
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

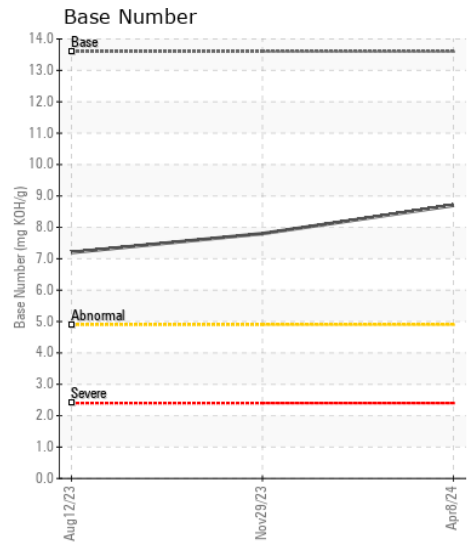
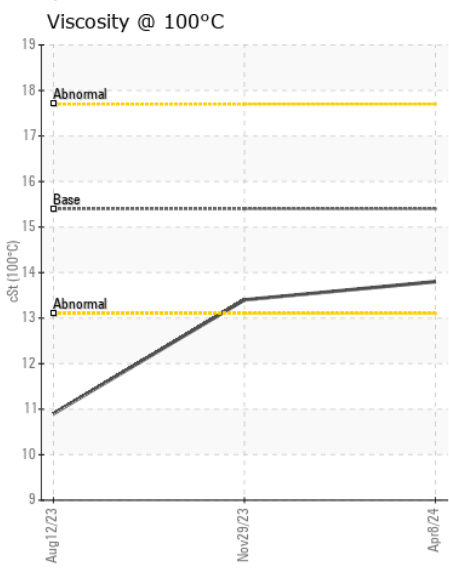
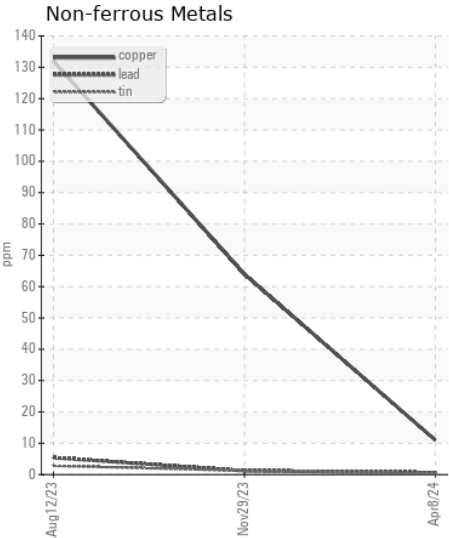
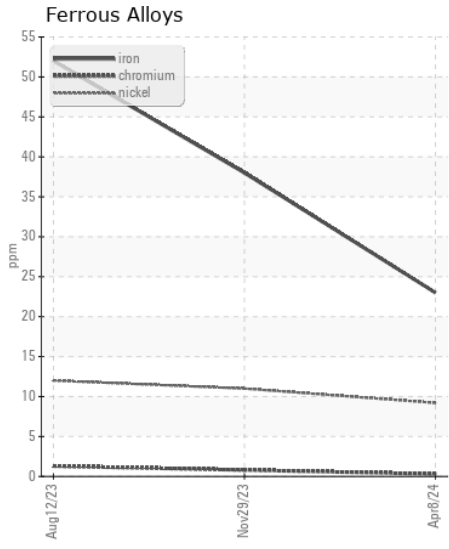
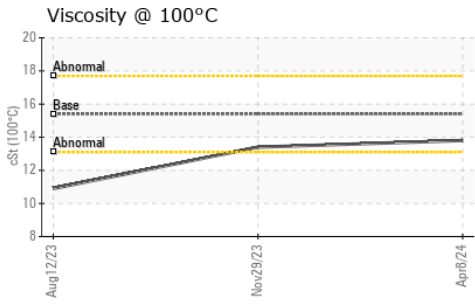
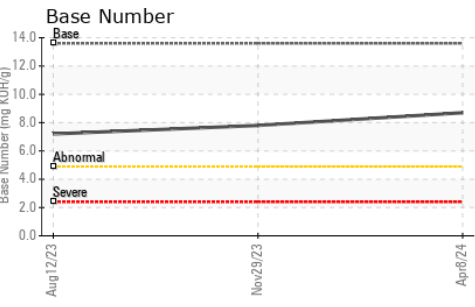
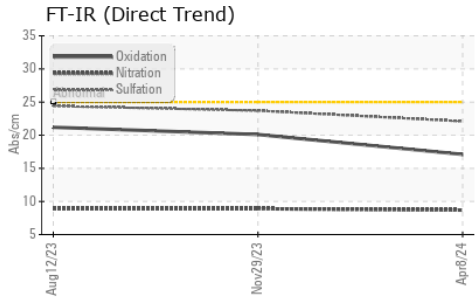
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	7	10	12
Potassium	ppm	ASTM D5185m	>20	3	4	9
Fuel		WC Method	>2.1	<1.0	<1.0	0.2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.9	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	23.7	24.4
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	7
Boron	ppm	ASTM D5185m		241	175	190
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		248	256	233
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		823	769	844
Calcium	ppm	ASTM D5185m		1371	1410	1542
Phosphorus	ppm	ASTM D5185m		914	730	790
Zinc	ppm	ASTM D5185m		1072	984	1025
Sulfur	ppm	ASTM D5185m		3490	3729	3077
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	20.1	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.7	7.8	7.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.4	10.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210888 **Received** : 10 Apr 2024
Lab Number : 06145205 **Tested** : 11 Apr 2024
Unique Number : 10970013 **Diagnosed** : 11 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111
 Contact: DON VEST
 dvest@jamesriverequipment.com
 T: (703)631-8500
 F: (703)631-4715

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)