



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 848L 1DW848LBANF713291

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (30 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0201253	JR0182476	JR0176777
Sample Date		Client Info		26 Feb 2024	08 Sep 2023	20 Jul 2023
Machine Age	hrs	Client Info		2009	1537	1378
Oil Age	hrs	Client Info		472	159	891
Filter Age	hrs	Client Info		472	159	891
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	20	11	39
Chromium	ppm	ASTM D5185m	>11	1	<1	1
Nickel	ppm	ASTM D5185m	>5	6	4	▲ 29
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	7	2	7
Lead	ppm	ASTM D5185m	>26	<1	0	2
Copper	ppm	ASTM D5185m	>26	4	9	▲ 45
Tin	ppm	ASTM D5185m	>4	<1	<1	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

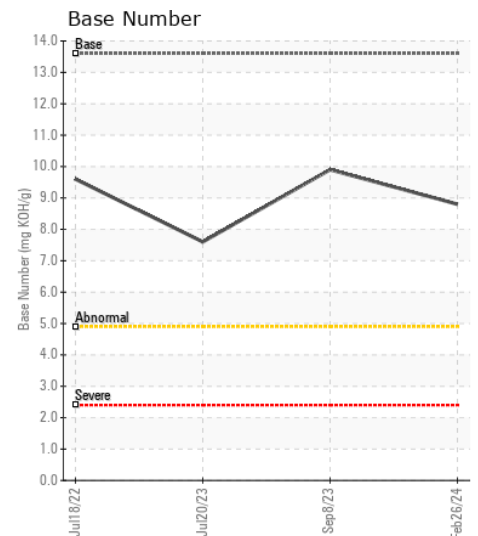
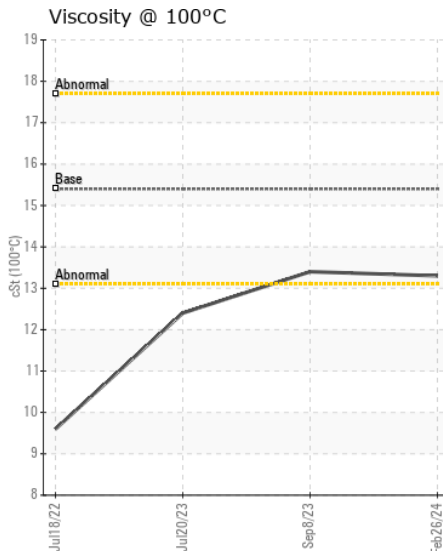
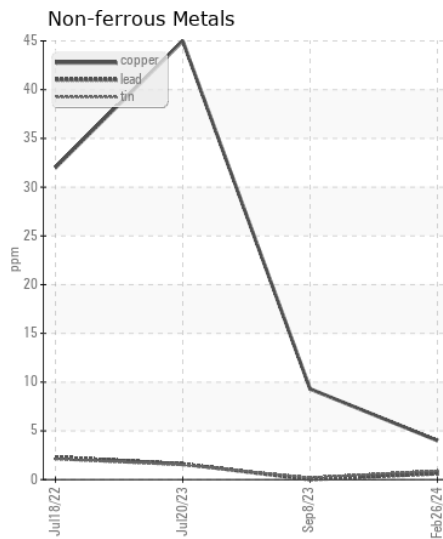
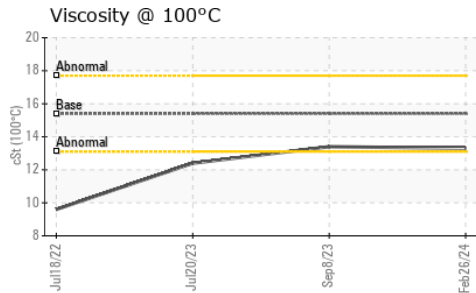
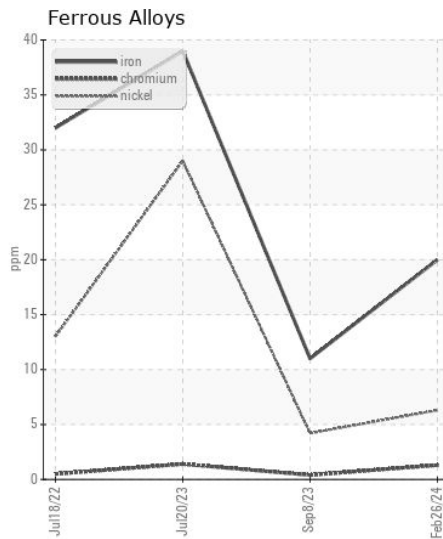
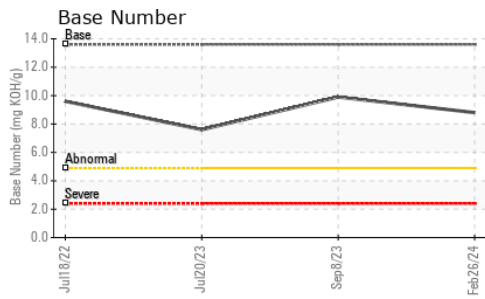
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	6	8
Potassium	ppm	ASTM D5185m	>20	14	7	15
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.2	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	20.2	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	2	3
Boron	ppm	ASTM D5185m		178	247	80
Barium	ppm	ASTM D5185m		2	<1	0
Molybdenum	ppm	ASTM D5185m		237	254	264
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m		759	862	843
Calcium	ppm	ASTM D5185m		1233	1442	1549
Phosphorus	ppm	ASTM D5185m		842	907	823
Zinc	ppm	ASTM D5185m		1004	1096	1057
Sulfur	ppm	ASTM D5185m		3085	3612	3351
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.7	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	9.9	7.6
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	12.4



Certificate L2367

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

Sample No. : JR0201253

Lab Number : 06102705

Unique Number : 10900935

Test Package : CONST (Additional Tests: TBN)

Received : 28 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 29 Feb 2024 - Wes Davis

JRE - NEW BERN

3816 MARTIN LUTHER KING BLVD

NEW BERN, NC

US 28562

Contact: NEW BERN SHOP

nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.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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