



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area

[INTERNAL]

Machine Id

JOHN DEERE 843L-II 1DW843LBEJF690922

Component

Diesel Engine

Fluid

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

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0177200	JR0035817	---
Sample Date		Client Info		07 May 2024	04 Jan 2020	---
Machine Age	hrs	Client Info		7781	1020	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	9	17	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>31	3	8	---
Lead	ppm	ASTM D5185m	>26	2	2	---
Copper	ppm	ASTM D5185m	>26	7	43	---
Tin	ppm	ASTM D5185m	>4	2	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

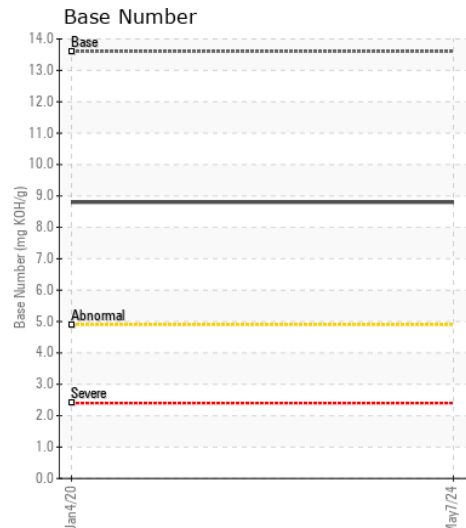
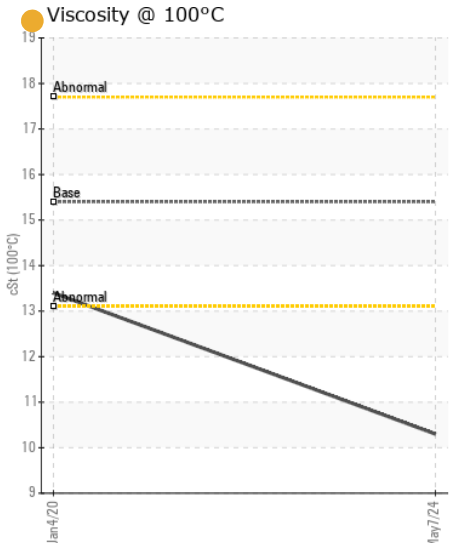
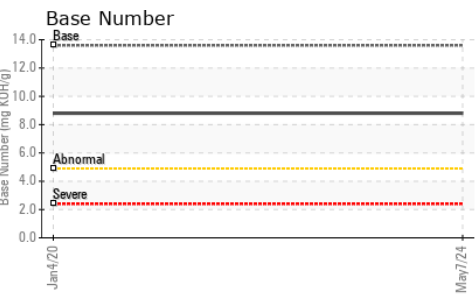
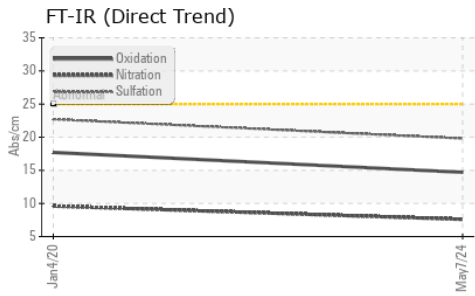
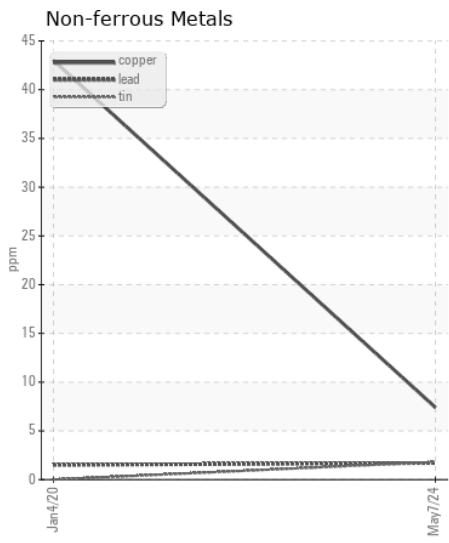
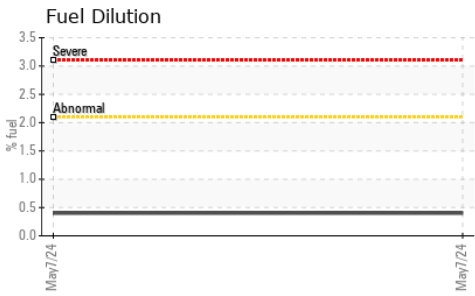
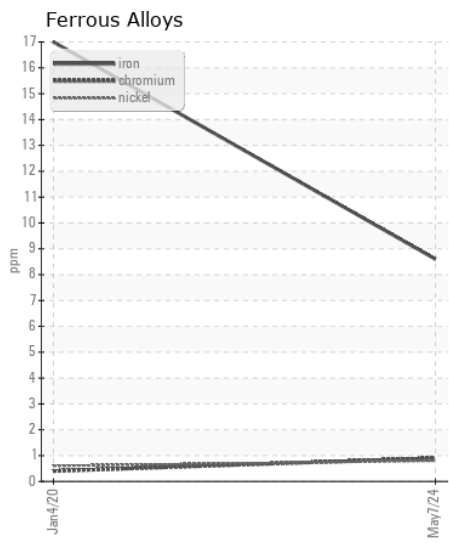
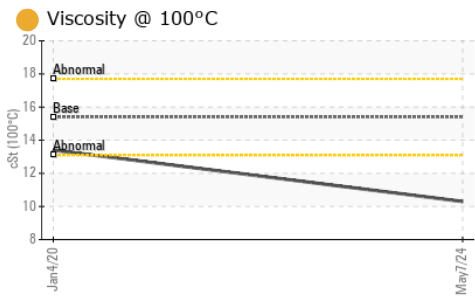
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	5	---
Potassium	ppm	ASTM D5185m	>20	3	24	---
Fuel	%	ASTM D3524	>2.1	0.4	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	7.6	9.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	22.7	---
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>31	4	4	---
Boron	ppm	ASTM D5185m		12	169	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		11	223	---
Manganese	ppm	ASTM D5185m		4	1	---
Magnesium	ppm	ASTM D5185m		43	714	---
Calcium	ppm	ASTM D5185m		2176	1530	---
Phosphorus	ppm	ASTM D5185m		924	784	---
Zinc	ppm	ASTM D5185m		1004	1024	---
Sulfur	ppm	ASTM D5185m		4065	2594	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	17.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	8.8	---
Visc @ 100°C	cSt	ASTM D445	15.4	10.3	13.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0177200 **Received** : 21 May 2024
Lab Number : 06185983 **Tested** : 24 May 2024
Unique Number : 11042735 **Diagnosed** : 24 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - MOUNT GILEAD
 305 NORTH MAIN STREET
 MOUNT GILEAD, NC
 US 27306

Contact: TIM ELSWORTH
 telsworth@jamesriverequipment.com
 T: (910)439-5653
 F: (910)439-4568

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)