WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

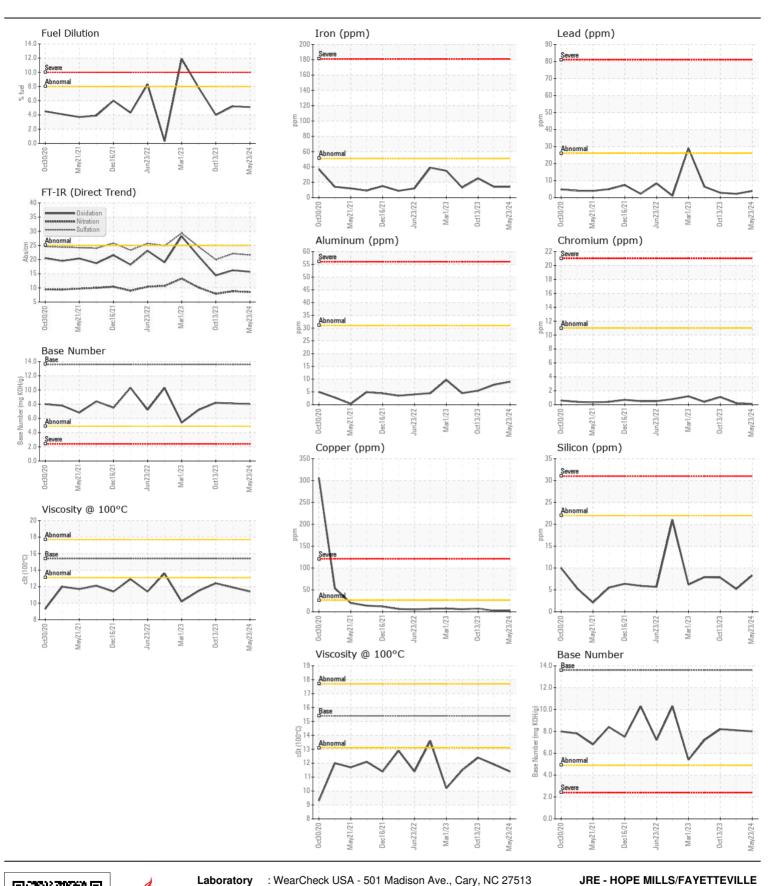


[W8928]

JOHN DEERE 410E 1DW410ETVLF706853

Diesel Engine

JOHN DEERE ENGINE OIL PLU	JS 50 II 15W	40 (1	2 GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W8928)	Sample Number		Client Info		JR0196848		JR0183309
	Sample Date		Client Info		23 May 2024	06 Feb 2024	13 Oct 2023
	Machine Age	hrs	Client Info		6461	5971	5501
	Oil Age	hrs	Client Info		490	470	551
	Filter Age	hrs	Client Info		490	470	551
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	14	14	25
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	1
	Nickel	ppm	ASTM D5185m	>5	2	<1	1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>31	9	8	6
	Lead	ppm	ASTM D5185m	>26	4	2	3
	Copper	ppm	ASTM D5185m	>26	3	2	7
	Tin	ppm	ASTM D5185m	>4	2	2	1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	5	8
	Potassium	ppm	ASTM D5185m	>20	4	2	4
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>8.0	5.1	5.2	4.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.8	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	22.1	20.0
	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	Sodium	ppm	ASTM D5185m	>31	3	3	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oils additive package is suitable for further service.	Boron	ppm	ASTM D5185m		177	194	208
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		237	258	232
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		841	805	692
	Calcium	ppm	ASTM D5185m		1322	1263	1185
	Phosphorus	ppm	ASTM D5185m		834	893	790
	Zinc	ppm	ASTM D5185m		1053	1038	931
	Sulfur	ppm	ASTM D5185m		3329	2914	2753
	Oxidation	Abs/.1mm	*ASTM D7414		15.7	16.2	14.4
	Base Number (BN)				8.0	8.1	8.2
	Visc @ 100°C	cSt	ASTM D445	15.4	11.4	11.9	12.4





Certificate L2367

Laboratory

Sample No. Lab Number

: JR0196848 : 06190166 Unique Number : 11046918

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested**

: 30 May 2024 : 30 May 2024 - Jonathan Hester Diagnosed Test Package: MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

5039 HWY 301 SOUTH HOPE MILLS, NC US 28348

Contact: FAYETTEVILLE SHOP stephen.mull is @james river equipment.com; can a stasio @wear check.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F: