WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

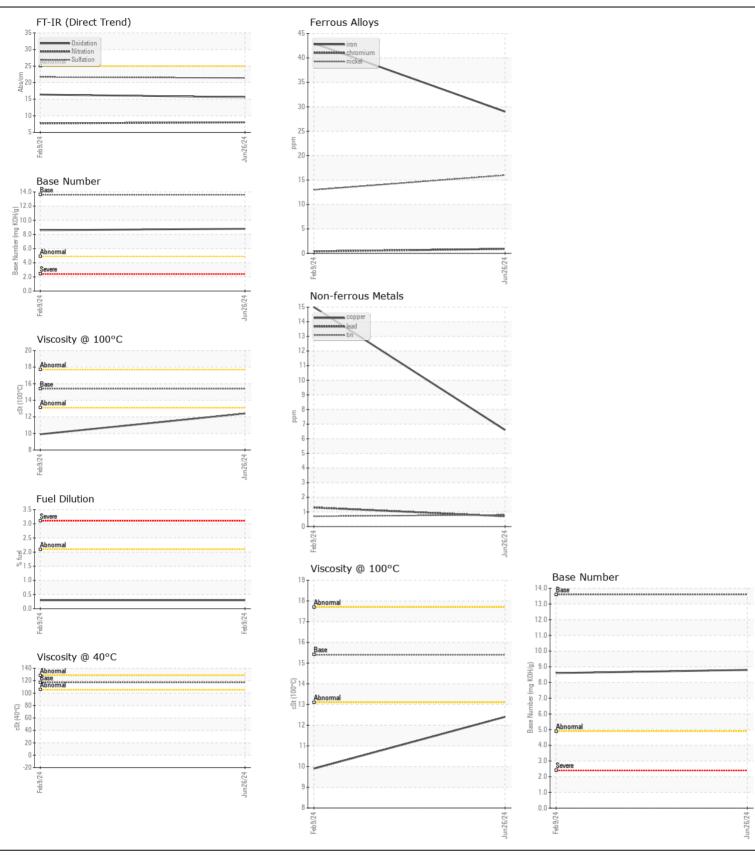
[W52517]

JOHN DEERE 310 P 1DW310PAJPFB06878 1DW310PAJPFB06878

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212031	JR0199741	
	Sample Date		Client Info		26 Jun 2024	09 Feb 2024	
	Machine Age	hrs	Client Info		991	499	
	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				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>51	29	43	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		16	13	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m		7	5	
	Lead	ppm	ASTM D5185m		- <1	1	
	Copper	ppm	ASTM D5185m		7	15	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	12	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		6	11	
	Fuel	%	ASTM D3524		<1.0	0.3	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.3	0.2	
	Nitration	Abs/cm	*ASTM D7624		8.0	7.7	
	Sulfation	Abs/.1mm	*ASTM D7415		21.4	21.7	
	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	Sodium	ppm	ASTM D5185m	>31	1	3	
LOID CONDITION	Boron	ppm	ASTM D5185m	- 01	216	286	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	0	
	Molybdenum	ppm	ASTM D5185m		258	286	
	Manganese	ppm	ASTM D5185m		1	1	
	Magnesium	ppm	ASTM D5185m		766	828	
	Calcium	ppm	ASTM D5185m		1423	1352	
	Phosphorus	ppm	ASTM D5185m		852	868	
	Zinc	ppm	ASTM D5185m		1045	1090	
	Sulfur	ppm	ASTM D5185m		2719	2846	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	16.4	
	Base Number (BN)				8.8	8.6	
	Visc @ 100°C		ASTM D445		12.4	9.9	





Certificate L2367

Laboratory Sample No.

Lab Number : 06225843

: JR0212031 Unique Number : 11109336

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

: 03 Jul 2024 Diagnosed

: 03 Jul 2024 - Jonathan Hester

: 02 Jul 2024

Test Package : CONST (Additional Tests: FuelDilution, KV40, TBN)

* - 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)

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

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