WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL NORMAL

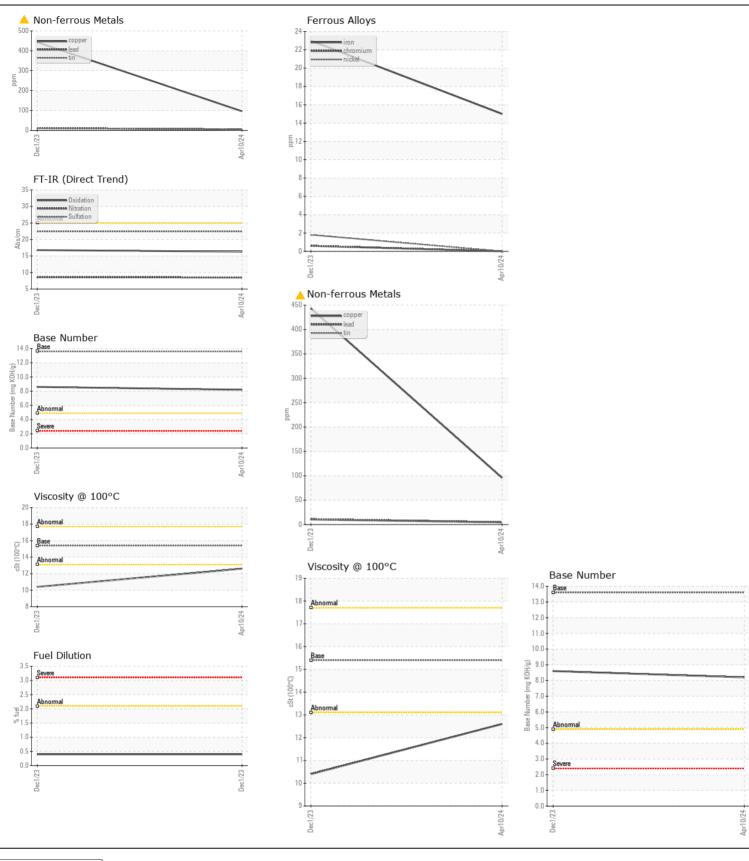
Machine Id

JOHN DEERE 410P 5477 (S/N 1DW410PALPFB06972)

Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0206783	JR0192937	
	Sample Date		Client Info		10 Apr 2024	01 Dec 2023	
	Machine Age	hrs	Client Info		1051	558	
	Oil Age	hrs	Client Info		493	558	
	Filter Age	hrs	Client Info		0	558	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
VEAR	Iron	nnm	ASTM D5185m	<u> </u>	15	23	
WEAT	Chromium	ppm	ASTM D5185m		0	<1	
The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	2	
	Titanium	ppm	ASTM D5185m	75	0	<1	
	Silver	ppm	ASTM D5185m	~3	0	<1	
	Aluminum	ppm	ASTM D5185m		5	6	
	Lead	ppm	ASTM D5185m		5	11	
	Copper	ppm	ASTM D5185m		<u> </u>	<u>443</u>	
	Tin	ppm	ASTM D5185m		4	10	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	12	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	3	
	Fuel	%	ASTM D3524	>2.1	<1.0	0.4	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.6	
	Sulfation	Abs/.1mm	*ASTM D7415		22.4	22.4	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	8	
	Boron	ppm	ASTM D5185m		216	184	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		<1	<1	
	Molybdenum	ppm	ASTM D5185m		235	223	
	Manganese	ppm	ASTM D5185m		2	9	
	Magnesium	ppm	ASTM D5185m		788	817	
	Calcium	ppm	ASTM D5185m		1441	1349	
	Phosphorus	ppm	ASTM D5185m		970	905	
	Zinc	ppm	ASTM D5185m		1145	1146	
	Sulfur	ppm	ASTM D5185m		3477	3017	
	Oxidation	Abs/.1mm	*ASTM D7414		16.3	16.8	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.2	8.6	
	Visc @ 100°C	cSt	ASTM D445	4 = 4	12.6	10.4	







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0206783 Lab Number : 06147177

Unique Number : 10977255

Received **Tested** Diagnosed

: 16 Apr 2024 - Sean Felton Test Package : CONST (Additional Tests: FuelDilution, TBN)

: 12 Apr 2024

: 15 Apr 2024

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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