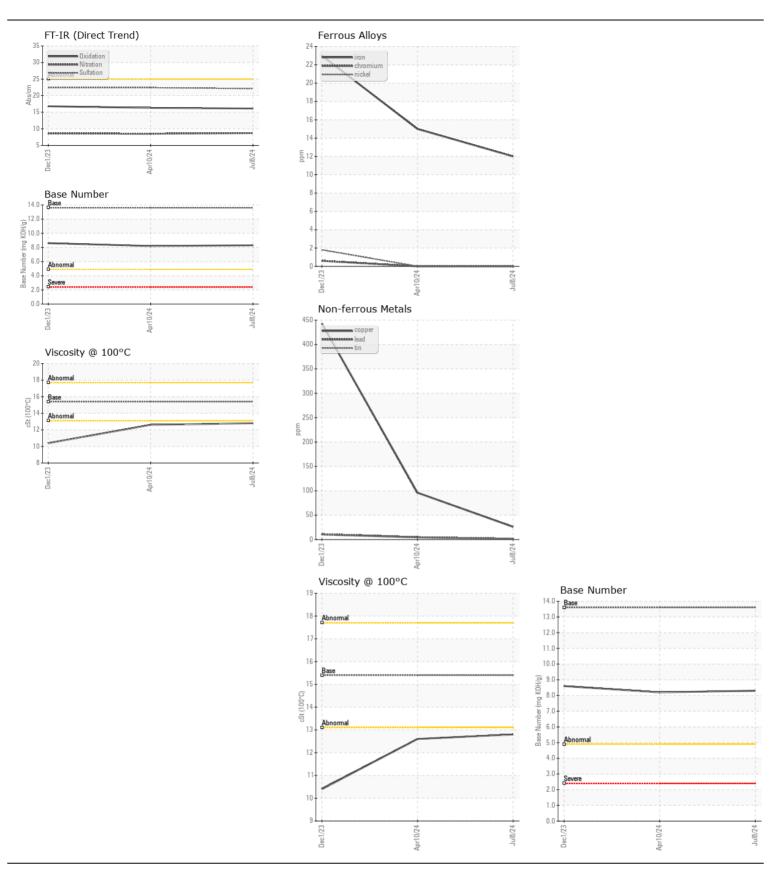
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

[W68716]

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

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0220186	JR0206783	JR019293
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: W68716)	Sample Date		Client Info		08 Jul 2024	10 Apr 2024	01 Dec 202
	Machine Age	hrs	Client Info		1516	1051	558
	Oil Age	hrs	Client Info		465	493	558
	Filter Age	hrs	Client Info		0	0	558
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	<u></u>	12	15	23
VLAN	Chromium	ppm	ASTM D5185m		0	0	<1
All component wear rates are normal.	Nickel		ASTM D5185m		0	0	2
	Titanium	ppm	ASTM D5185m	>0	0	0	<1
	Silver		ASTM D5185m	. 2	0	0	<1
	Aluminum	ppm	ASTM D5165III		3	5	6
	Lead	ppm	ASTM D5185m		2	5	11
	Copper	ppm	ASTM D5185m		26	△ 96	<u>443</u>
	Tin	ppm	ASTM D5105m		2	4	10
	Vanadium	ppm	ASTM D5185m	7	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	7	12
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	<1	3
	Fuel		WC Method		<1.0	<1.0	0.4
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624		8.7	8.5	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	22.4	22.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	5	8
	Boron	ppm	ASTM D5185m		191	216	184
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		<1	<1	<1
	Molybdenum	ppm	ASTM D5185m		250	235	223
	Manganese	ppm	ASTM D5185m		<1	2	9
	Magnesium	ppm	ASTM D5185m		815	788	817
	Calcium	ppm	ASTM D5185m		1465	1441	1349
	Phosphorus	ppm	ASTM D5185m		917	970	905
	Zinc	ppm	ASTM D5185m		1044	1145	1146
	Sulfur	ppm	ASTM D5185m		3268	3477	3017
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	16.3	16.8
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	8.2	8.6







Laboratory Sample No.

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

Lab Number : 06235669 Unique Number : 11124503

: JR0220186

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

: 15 Jul 2024 : 16 Jul 2024

: 16 Jul 2024 - Don Baldridge

US 28086 Contact: TAM WRIGHT twright@ckcdllc.com T: (704)730-9948

KINGS MOUNTAIN, NC

**CK CONTRACTING** 

124-1 WOODING PL

F: (704)730-9975

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)