

**WEAR CONTAMINATION FLUID CONDITION** 

**ABNORMAL NORMAL NORMAL** 

## CONSTELLIUM [A32207]

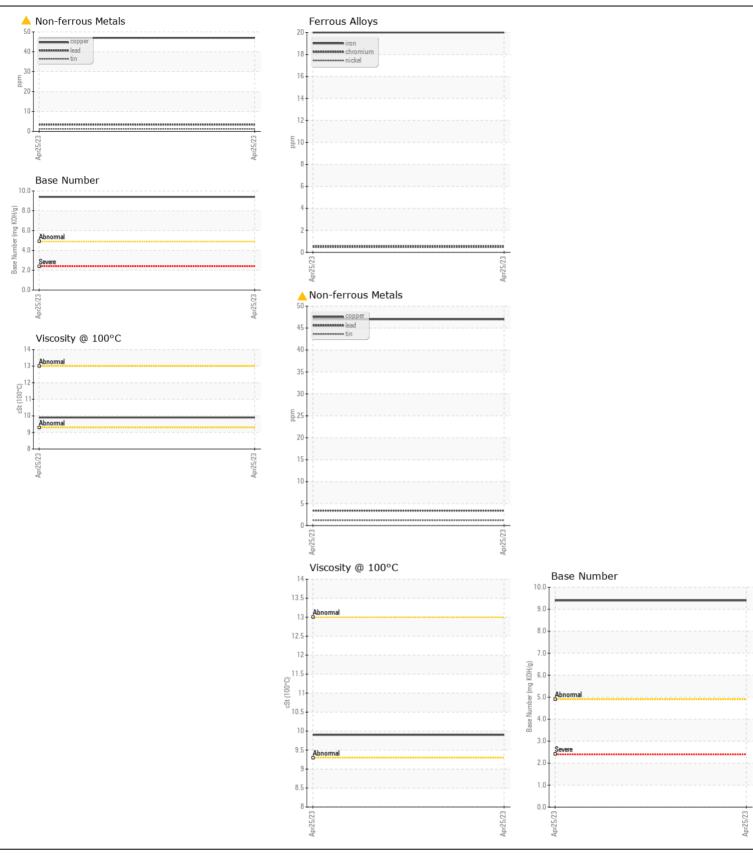
## JOHN DEERE 444P CONSTELLIUM UNIT #778 (S/N 1DW444PATNLZ16778)

Drain Diesel Engine

IOHN DEERE ENGINE OIL PLUS 50 II 10W30 (6 GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (6	GAL)				.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WE0003333		
No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: A32207 breakin oil )	Sample Date		Client Info		25 Apr 2023		
	Machine Age	hrs	Client Info		226		
	Oil Age	hrs	Client Info		226		
	Filter Age	hrs	Client Info		226		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	20		
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	70	<1		
	Silver	ppm	ASTM D5185m	<b>\3</b>	0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		∆ 47		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		10		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m	<b>\31</b>	2		
TEOD CONDITION	Boron	ppm	ASTM D5185m		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		0		
	Molybdenum	ppm	ASTM D5185m		265		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		789		
	Calcium	ppm	ASTM D5185m		1429		
	Phosphorus	ppm	ASTM D5185m		897		
	Zinc	ppm	ASTM D5185m		1075		
	Sulfur	ppm	ASTM D5185m		3021		
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	15.6		
	Base Number (BN)			723	9.4		
	Visc @ 100°C	cSt	ASTM D2030		9.9		
	V130 @ 100 U	COL	, NOTIVI DTTJ		9.9	•	-

Submitted By: BOBBY LUCKY





Certificate L2367

Laboratory Sample No. Lab Number

: WE0003333 : 05831919 Unique Number : 10445412

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

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

Diagnosed Test Package : CONST ( Additional Tests: TBN )

: 27 Apr 2023 : 01 May 2023

Diagnostician : Sean Felton

US 35756 Contact: BOBBY LUCKY warriorparts033@gmail.com T:

25135 ONE AVIATION WAY SW

WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE

\* - 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)

F:

MADISON, AL