



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

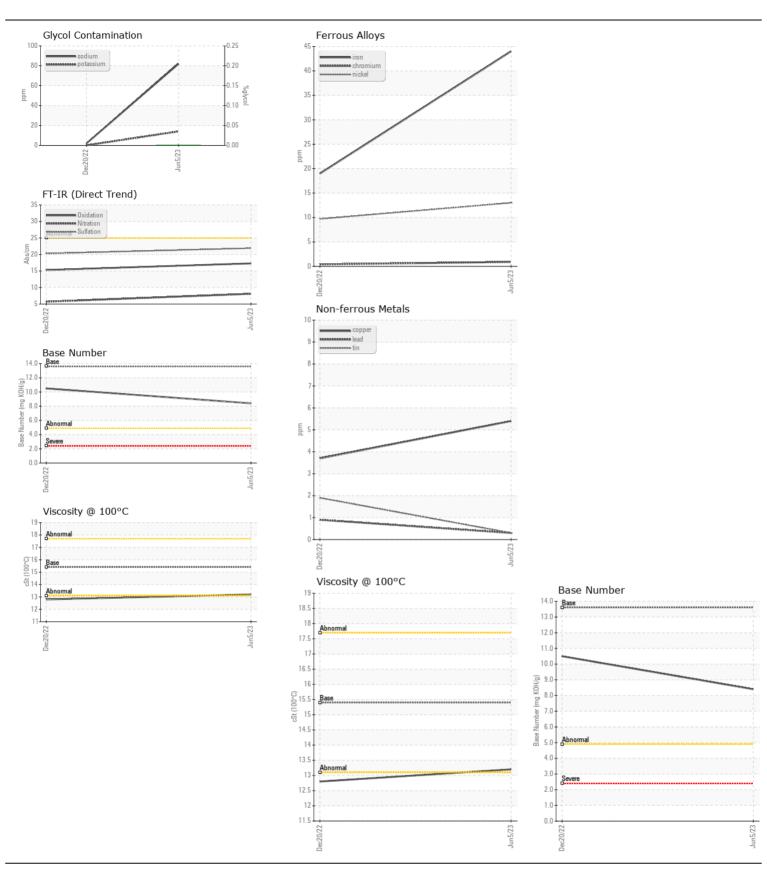
Store 8 - Pikeville [139128]

JOHN DEERE 310E 1DW310EXVNF714534

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 GAL)

Test	JOHN DEEKE ENGINE OIL PLU	19 SO II 19W	40 (9	GAL)				
Name	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Assembling has been noted. Resample at the next service interval to monitor. Assembling has been noted. Resample at the next service interval to monitor. Assembling his service. Assembling his his service. Assembling his service. Assembling his his service. Assembli	TEOGRAMETO ATTOM						,	,
Machine Age his Cilent Info 1046 486								
Oil Age hrs Client Info 560 486			hrs	Client Info		1046		
Filter Age		Oil Age	hrs	Client Info		560		
Oil Changed Client Info Changed Change			hrs	Client Info			486	
Normal N		_		Client Info		Changed	Changed	
Iron		Filter Changed		Client Info		Changed	Changed	
All component wear rates are normal. Chromium opm ASTIN DSISS 51 51 51 51 51 51 51		Sample Status				NORMAL	_	
All component wear rates are normal. Chromium opm ASTIN DSISS 51 51 51 51 51 51 51								
Nickel ppm ASTM D6165m >5 13 10	WEAR	Iron	ppm				19	
Nicket Pipil Titanium Pipil STM D0586m 3 0 0	All component wear rates are normal.		ppm	ASTM D5185m	>11	<1		
Silver		Nickel	ppm		>5	13		
Aluminum ppm ASTM D6185m >26 <1 <1			ppm	ASTM D5185m		0	0	
Lead ppm ASTM D5185m >26 <1 <1			ppm			0		
Copper		Aluminum	ppm	ASTM D5185m	>31	2	2	
Tin			ppm			<1	<1	
Vanadium ppm ASTM D5185m NONE NONE		Copper	ppm	ASTM D5185m	>26	5	4	
White Metal Yellow Metal Scalar Visual NONE NONE			ppm		>4	<1	2	
Vellow Metal Scalar Visual NONE NO		Vanadium	ppm			0	0	
CONTAMINATION		White Metal	scalar		NONE	NONE	NONE	
Test for glycol is negative. There is no indication of any contamination in the oil. Potassium ppm ASTM 05185m >20 14 0		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Test for glycol is negative. There is no indication of any contamination in the oil. Potassium ppm ASTM 05185m >20 14 0	CONTABINATION	0.00		40TM DE40E	100		4	
Fuel WC Method >2.1 <1.0 <1.0 <	CONTAMINATION							
Water			ppm					
Glycol % *ASTM D2982 0.0 NEG Soot % % *ASTM D7844 >3 0.3 0.2 Nitration Abs/mm *ASTM D7645 >20 8.1 5.7 Suffation Abs/mm *ASTM D7645 >30 21.9 20.3 Silt scalar *Visual NONE NON								
Soot %			0/		>0.21			
Nitration Abs/cm *ASTM D7624 >20 8.1 5.7		-			0			
Sulfation Abs/.tmm *ASTM D7415 >30 21.9 20.3								
Silt Scalar *Visual NONE NO								
Debris Scalar *Visual NONE NORML NORML								
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML								
Appearance Scalar *Visual NORML NORM								
Calcium Calc								
Emulsified Water scalar *Visual >0.21 NEG NEG		• •						
Sodium ppm ASTM D5185m >31 82 2								
Boron ppm ASTM D5185m 216 136				Visuai				
Boron ppm ASTM D5185m 216 136	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	82	2	
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 223 88			ppm			216	136	
Molybdenum ppm ASTM D5185m 223 88 Manganese ppm ASTM D5185m 1 <1 Magnesium ppm ASTM D5185m 799 425 Calcium ppm ASTM D5185m 1539 1832 Phosphorus ppm ASTM D5185m 923 1138 Zinc ppm ASTM D5185m 923 1138 Sulfur ppm ASTM D5185m 1171 1297 Sulfur ppm ASTM D5185m 3735 4079 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 15.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.4 10.5	,		ppm					
Magnesium ppm ASTM D5185m 799 425 Calcium ppm ASTM D5185m 1539 1832 Phosphorus ppm ASTM D5185m 923 1138 Zinc ppm ASTM D5185m 1171 1297 Sulfur ppm ASTM D5185m 3735 4079 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 15.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.4 10.5		Molybdenum	ppm	ASTM D5185m		223	88	
Calcium ppm ASTM D5185m 1539 1832 Phosphorus ppm ASTM D5185m 923 1138 Zinc ppm ASTM D5185m 1171 1297 Sulfur ppm ASTM D5185m 3735 4079 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 15.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.4 10.5		Manganese	ppm	ASTM D5185m		1	<1	
Calcium ppm ASTM D5185m 1539 1832 Phosphorus ppm ASTM D5185m 923 1138 Zinc ppm ASTM D5185m 1171 1297 Sulfur ppm ASTM D5185m 3735 4079 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 15.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.4 10.5		_		ASTM D5185m		799		
Phosphorus ppm ASTM D5185m 923 1138 Zinc ppm ASTM D5185m 1171 1297 Sulfur ppm ASTM D5185m 3735 4079 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 15.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.4 10.5		Calcium				1539		
Sulfur ppm ASTM D5185m 3735 4079 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 15.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.4 10.5		Phosphorus		ASTM D5185m		923	1138	
Oxidation Abs/.1mm *ASTM D7414 >25 17.3 15.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.4 10.5		Zinc	ppm			1171	1297	
Oxidation Abs/.1mm *ASTM D7414 >25 17.3 15.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.4 10.5		Sulfur				3735		
		Oxidation	Abs/.1mm	*ASTM D7414	>25		15.3	
Visc @ 100°C cSt ASTM D445 15.4 13.2 12.8		Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.4	10.5	
		Visc @ 100°C	cSt	ASTM D445	15.4	13.2	12.8	







Report Id: LESMAROH [WUSCAR] 05867702 (Generated: 05/10/2024 15:21:18) Rev: 1

Laboratory Sample No.

Lab Number : 05867702 Unique Number : 10507486

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0040432

Received **Tested** Diagnosed

: 08 Jun 2023 : 14 Jun 2023

: 22 Jun 2023 - Doug Bogart

Test Package: CONST (Additional Tests: Glycol, TBN)

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

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