



WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL NORMAL **ATTENTION**

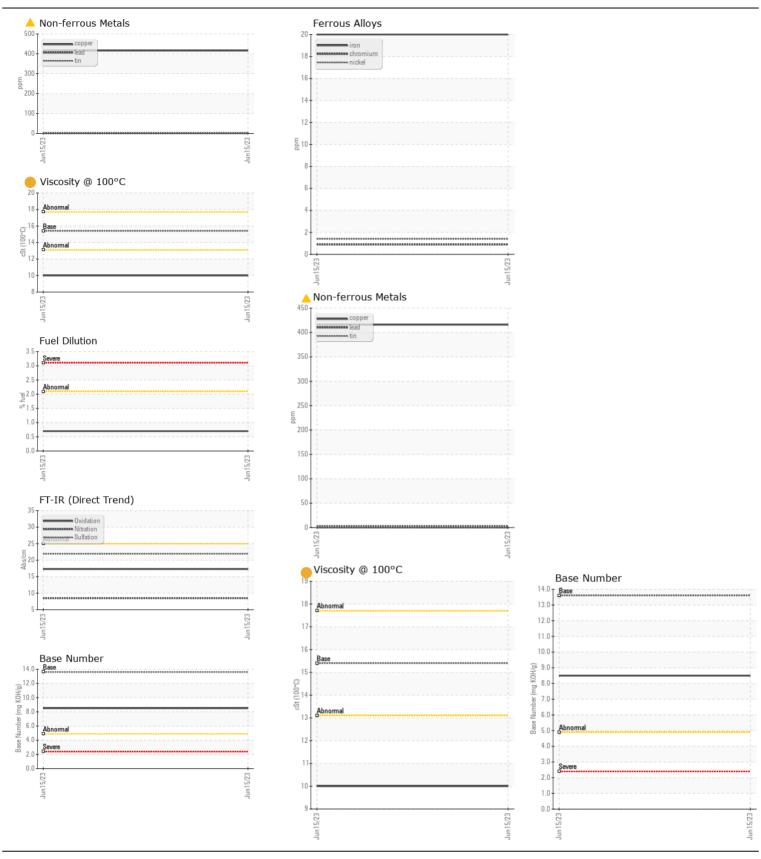
Store 9 - Marietta

JOHN DEERE 544P 1DW544PAHNLZ14996

Diesel Engine

IOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

Test UOM Method Linkth Current History History History Linkth Sample Date Client Info Sample Status Samp	JOHN DEERE ENGINE OIL PLU	S 50 II 15W	40 (5	GAL)				
Name	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 15 Jun 2023	TEOOMINE REPARENT							
Machine Age Inter- Client Info 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335 335								
Oil Age			hrs					
Filter Age Oil Chent Info Changed		•						
Oil Changed Cilent Info Changed Cilent Info Changed Ch								
Filter Changed Sample Status Sample Stat		•	1110					
Name		_						
Iron				Onoric iiiio		_		
Chromium SMIN DSISSS 1 1								
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. Nickel		Iron	ppm	ASTM D5185m	>51	20		
Market Spring ASTM D5165m Spring ASTM D5165m Spring State		Chromium	ppm	ASTM D5185m	>11	<1		
Itlanum	, ,	Nickel	ppm	ASTM D5185m	>5	1		
Silver Optm ASTM D5185m 3-3 0	core). All other metal levels are typical for a new component breaking	Titanium	ppm	ASTM D5185m		<1		
Aluminum ppm		Silver	ppm	ASTM D5185m	>3	0		
Copper		Aluminum	ppm	ASTM D5185m	>31	4		
Tin		Lead	ppm	ASTM D5185m	>26	<1		
Vanadium ppm ASTM D5185m <1		Copper	ppm	ASTM D5185m	>26	416		
White Metal Scalar Visual NONE NON		Tin	ppm	ASTM D5185m	>4	3		
Yellow Metal Scalar Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE		Vanadium	ppm	ASTM D5185m		<1		
Potassium ppm ASTM D5185m 20 2		White Metal	scalar	*Visual	NONE	NONE		
Potassium Pota		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium Pota	CONTANUNATION							
Fuel content negligible. There is no indication of any contamination in the oil. Fuel	Fuel content negligible. There is no indication of any contamination in							
the oil. Water								
Glycol			%					
Soot %					>0.21			
Nitration		-	21		0			
Sulfation Abs/.tmm *ASTM D7415 >30 21.9 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML								
Silt scalar *Visual NONE NONE NONE Sand/Dit scalar *Visual NONE NONE Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual Scalar *Visual NORML Scalar *Visual Scalar *Visual NORML Scalar *Visual Scalar *Visual Scalar *Visual Scalar *Visual Scalar *Visual NORML Scalar *Visual Scalar *Visual NORML Scalar *Visual Scalar *Visua								
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML NORML Scalar *Visual NORML *Visual NORML *Visual NORML *Visual NORML *Visual *Visual NORML *Visual *Visual NORML *Visual *Vi								
Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML								
Appearance								
Codor Scalar *Visual NORML NORML NORML Fmulsified Water Scalar *Visual Scalar *Visual NORML NORML								
Emulsified Water scalar *Visual >0.21 NEG		• •						
Sodium ppm ASTM D5185m >31 5								
Boron ppm ASTM D5185m 278 Barium ppm ASTM D5185m 2 Molybdenum ppm ASTM D5185m 262 Manganese ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 882 Calcium ppm ASTM D5185m 1486 Phosphorus ppm ASTM D5185m 953 Zinc ppm ASTM D5185m 953 Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5	<u></u>	Linuisilieu Water		Visuai				
Boron ppm ASTM D5185m 278 Barium ppm ASTM D5185m 2 Molybdenum ppm ASTM D5185m 262 Manganese ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 882 Calcium ppm ASTM D5185m 1486 Phosphorus ppm ASTM D5185m 953 Zinc ppm ASTM D5185m 953 Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5		
there is suitable alkalinity remaining in the oil. Confirm oil type. Molybdenum ppm ASTM D5185m 262 Manganese ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 1486 Phosphorus ppm ASTM D5185m 953 Zinc ppm ASTM D5185m 1148 Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5		Boron		ASTM D5185m		278		
Molybdenum ppm ASIM D5185m 262 Manganese ppm ASTM D5185m 5 Magnesium ppm ASTM D5185m 882 Calcium ppm ASTM D5185m 1486 Phosphorus ppm ASTM D5185m 953 Zinc ppm ASTM D5185m 1148 Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5	•	Barium	ppm	ASTM D5185m		2		
Magnesium ppm ASTM D5185m 882 Calcium ppm ASTM D5185m 1486 Phosphorus ppm ASTM D5185m 953 Zinc ppm ASTM D5185m 1148 Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5		Molybdenum	ppm	ASTM D5185m		262		
Calcium ppm ASTM D5185m 1486 Phosphorus ppm ASTM D5185m 953 Zinc ppm ASTM D5185m 1148 Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5		Manganese	ppm	ASTM D5185m		5		
Phosphorus ppm ASTM D5185m 953 Zinc ppm ASTM D5185m 1148 Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5		Magnesium	ppm	ASTM D5185m		882		
Zinc ppm ASTM D5185m 1148 Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5		Calcium	ppm	ASTM D5185m		1486		
Sulfur ppm ASTM D5185m 3762 Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5		Phosphorus	ppm	ASTM D5185m		953		
Oxidation Abs/.1mm *ASTM D7414 >25 17.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5			ppm	ASTM D5185m		1148		
Base Number (BN) mg KOH/g ASTM D2896 13.6 8.5		Sulfur	ppm	ASTM D5185m		3762		
		Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3		
Visc @ 100°C cSt ASTM D445 15.4 (10.0)		Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5		
		Visc @ 100°C	cSt	ASTM D445	15.4	10.0		





Laboratory Sample No.

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

: LEC0042278 Lab Number : 05876501 Unique Number : 10521604

Received **Tested**

: 20 Jun 2023 : 20 Jun 2023 - Sean Felton Diagnosed

: 19 Jun 2023

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

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765 Contact: LEANNE KENDALL

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F: (740)373-5570

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)