



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

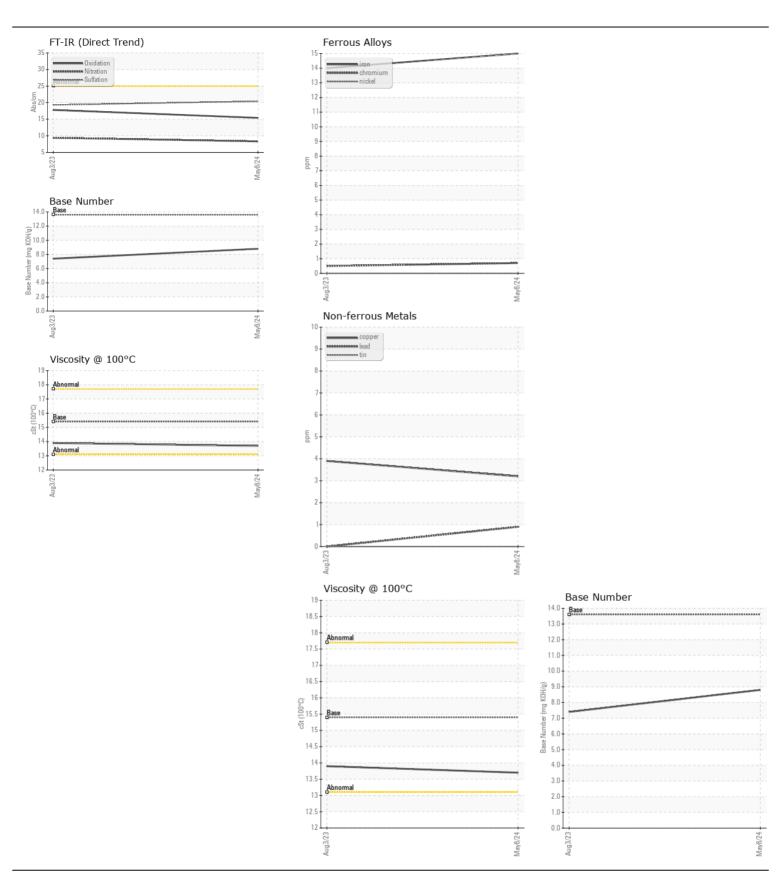
Store 4 - Fairmont [RO# 148602]

JLG 1255 0160052187Component

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (14 QTS)

Sample Jate	JUHN DEERE ENGINE OIL PLUS 30 II 13W40 (14 ((15)				.,		
Sample Number Client Info Lecoword L	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample Date Comment: SUSPECT CONTAMINATION DUE TO TURBO FAILURE) Sample Date Collent Info Coll Age hrs Collent Info Coll Age Collent Info Coll Age Hrs Collent Info Coll Age Collent Info Coll Age Collent Info Coll Age Collent Info Collent I	Resample at the next service interval to monitor. (Customer Sample Comment: SUSPECT CONTAMINATION DUE TO TURBO FAILURE)	Sample Number		Client Info			,	,
Machine Age his Cilent Info 34 441 4007						08 May 2024	03 Aug 2023	
Filter Age		Machine Age	hrs	Client Info		4341		
Oil Changed Chient Info Not Changed Ch		Oil Age	hrs	Client Info		334	4007	
Filter Changed Sample Status Sample Stat		Filter Age	hrs	Client Info		334	500	
NORMAL N		Oil Changed		Client Info		Not Changd	Changed	
Iron		Filter Changed		Client Info		Not Changd	Changed	
All component wear rates are normal. Chromium ppm ASTM D5165m > 20 < 1 < 1 Nickel ppm ASTM D5165m > 4 0 0 0 Sliver ppm ASTM D5165m > 20 3 1 ASTM D5165m > 20 0 ASTM D5165m > 20 0 0 0 ASTM D5165m > 20 0 0 0 0 0 ASTM D5165m > 20 0 0 0 0 0 ASTM D5165m > 20 0 0 0 0 0 0 ASTM D5165m > 20 0 0 0 0 0 0		Sample Status				NORMAL	NORMAL	
All component wear rates are normal. Chromium ppm ASTM D5165m > 20 < 1 < 1 Nickel ppm ASTM D5165m > 4 0 0 0 Sliver ppm ASTM D5165m > 20 3 1 ASTM D5165m > 20 0 ASTM D5165m > 20 0 0 0 ASTM D5165m > 20 0 0 0 0 0 ASTM D5165m > 20 0 0 0 0 0 ASTM D5165m > 20 0 0 0 0 0 0 ASTM D5165m > 20 0 0 0 0 0 0	WEAD	I		AOTM DE405	400	4=	4.4	
Nickel ppm ASTM D5185m -4 0 0	WEAR							
Notice Spill Same Spill Same Spill Spill	All component wear rates are normal.							
Silver					>4			
Aluminum ppm ASTM D5185m >20 3 1								
Lead							0	
Copper						-	1	
Tin								
Vanadium ppm ASTM 05185m NONE NONE								
White Metal Scalar *Visual NONE NO					>15			
Vellow Metal Scalar Visual NONE NO					NONE			
Silicon ppm ASTM D5185m >120 6 3								
Potassium ppm ASTM D5185m >20 1 3		Yellow Metal	scalar	visuai	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 1 3	CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	6	3	
Fuel WC Method S		Potassium		ASTM D5185m	>20	1	3	
Water WC Method >0.2 NEG NEG	There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	
Glycol				WC Method	>0.2	NEG	NEG	
Soot %		Glycol						
Sulfation Abs/.1mm *ASTM D7415 >30 20.4 19.3		-	%	*ASTM D7844	>3	0.1	0.1	
Silt scalar *Visual NONE NORML		Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.4	
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORML		Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	19.3	
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML		Silt	scalar	*Visual	NONE	NONE	NONE	
Appearance Scalar Visual NORML NORML		Debris	scalar	*Visual	NONE	NONE	NONE	
Codor Scalar *Visual NORML N		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.2 NEG NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m 2 2		Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 236 55		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Boron ppm ASTM D5185m 236 55	ELUID CONDITION	O a alla sas		AOTM DE405		•		
The BN result indicates that there is suitable alkalinity remaining in the bil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 209 43	FLUID CONDITION							
Molybdenum ppm ASTM D5185m	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese ppm ASTM D5185m <1	oil. The condition of the oil is suitable for further service.							
Magnesium ppm ASTM D5185m 769 749 Calcium ppm ASTM D5185m 1517 1421 Phosphorus ppm ASTM D5185m 920 728 Zinc ppm ASTM D5185m 1070 980 Sulfur ppm ASTM D5185m 3502 3008 Oxidation Abs/.1mm *ASTM D7414 >25 15.4 17.8 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.8 7.4		•						
Calcium ppm ASTM D5185m 1517 1421 Phosphorus ppm ASTM D5185m 920 728 Zinc ppm ASTM D5185m 1070 980 Sulfur ppm ASTM D5185m 3502 3008 Oxidation Abs/.1mm *ASTM D7414 >25 15.4 17.8 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.8 7.4		-						
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Zinc ppm ASTM D5185m 1070 980 Sulfur ppm ASTM D5185m 3502 3008 Oxidation Abs/.1mm *ASTM D7414 >25 15.4 17.8 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.8 7.4								
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Base Number (BN) mg KOH/g ASTM D2896 13.6 8.8 7.4					>25			
13.5 @ 100 O COL NOIM DTTO 10.7								
		1130 @ 100 0	501	, IOTIVI DTTO	10.7	13.7	10.0	







Laboratory Sample No.

Lab Number : 06176972

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0049072

Received **Tested** Unique Number : 11023025 Diagnosed

Test Package : CONST (Additional Tests: TBN)

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.

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765

Contact: LEANNE KENDALL

KendalLeanne@lec1.com T:

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

: 13 May 2024

: 14 May 2024

: 14 May 2024 - Don Baldridge

F: (740)373-5570