



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

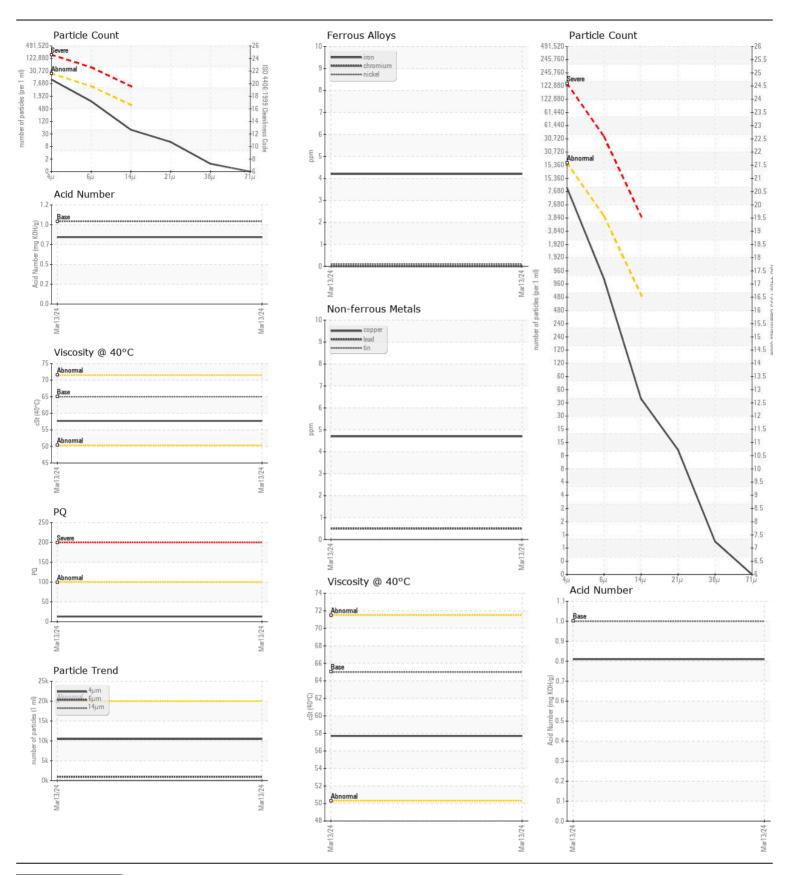


Store 9 - Marietta

JOHN DEERE 650K 1T0650KKLPF435155

Component Hydrostatic

Test	JOHN DEERE HYDRAU (26 GAL)						
Sample Number Client Info 13 Mar 2024	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 427		Sample Number		Client Info		LEC0049693		
Oil Age	Resample at the next service interval to monitor.	Sample Date		Client Info		13 Mar 2024		
Filter Age hrs Client Info Not Changd Client Info Client Info Not Changd Client Info Changd Client Info Not Changd Client Info Not Changd Client Info Changd Client Info Changd Client Info Not Changd Client Info Changd Client Info Changd Client Info Changd Changd Client Info Changd Chang			hrs	Client Info		427		
Oil Changed Cilent Info Not Changed		Oil Age	hrs	Client Info		427		
Filter Changed Sample Status		Filter Age	hrs	Client Info		427		
NORMAL N		Oil Changed		Client Info		Not Changd		
PQ		Filter Changed		Client Info		Not Changd		
All component wear rates are normal. Iron		Sample Status				NORMAL		
Iron	WFAR	PQ		ASTM D8184		13		
Chromium ppm ASTM D5185m >9 0			mag	ASTM D5185m	>31	4		
Nickel ppm ASTM D5185m >5 <1								
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 51 Lead ppm ASTM D5185m 51 Copper ppm ASTM D5185m 51 Tin ppm ASTM D5185m 55 0 Vanadium ppm ASTM D5185m 55 0 Vanadium ppm ASTM D5185m 50 Vanadium ppm ASTM D5185m 0 Valued NONE Valued NONE NONE Valued NONE Valued NONE Valued NONE NONE Valued NONE Valued NONE NONE Valued NONE NONE Valued NONE NONE Valued NONE Valued NONE NONE						-		
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >10 <1 Copper ppm ASTM D5185m >11 <1 Copper ppm ASTM D5185m >11 <1 Copper ppm ASTM D5185m >14 5 Tin ppm ASTM D5185m >5 0 White Metal scalar "Visual NONE NONE Valow Metal scalar "Visual NONE NONE Yellow Metal scalar "Visual NONE NONE The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Silicon ppm ASTM D5185m >31 <1 Potassium ppm ASTM D5185m >20 <1 Water WC Method >0.1 NEG Particles >4µm ASTM D5847 >2000 10450 Particles >6µm ASTM D7647 >5000 964 Particles >14µm ASTM D7647 >640 42 Particles >21µm ASTM D7647 >640 42 Particles >21µm ASTM D7647 >10 0 Particles >71µm ASTM D764								
Aluminum ppm ASTM D5185m >10 <1 Lead ppm ASTM D5185m >11 <1 Copper ppm ASTM D5185m >41 5 Tin ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m >2 0 Valer WC Method >0.1 NNE Valer WC Method >0.1 NEG Valer WC Method >0.1 NEG Valer ASTM D7647 >5000 964 Particles >4µm ASTM D7647 >5000 964 Particles >21µm ASTM D7647 >640 42 Particles >21µm ASTM D7647 >10 0 Valer ASTM D7647 >10 0 Valer Valur NONE NONE Valur ASTM D7647 >10 0 Valur ASTM D7647 >10 0 Valur ASTM D7647 >10 0 Valur Valur NONE NONE Valur NONE NONE Valur Valur								
Lead					>10			
Copper								
Tin								
Vanadium ppm ASTM D5185m Visual NONE N								
White Metal Yellow Metal Scalar *Visual NONE NONE NONE Yellow Metal Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON								
Yellow Metal Scalar *Visual NONE NONE					NONE	-		
Potassium		Yellow Metal		*Visual		_		
Potassium	CONTAMINATION	Silicon	nnm	ASTM D5185m	>31	<i>-</i> 1		
Water WC Method >0.1 NEG	CONTAMINATION							
Particles >4 \(\text{pm} \) ASTM D7647 >20000 10450	The system cleanliness is acceptable for your target ISO 4406		ррпп					
Particles >6µm ASTM D7647 >5000 964 Particles >14µm ASTM D7647 >640 42 Particles >21µm ASTM D7647 >160 11 Particles >38µm ASTM D7647 >40 1 Particles >71µm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) >21/19/16 21/17/13 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML								
Particles >14μm ASTM D7647 >640 42 Particles >21μm ASTM D7647 >160 11 Particles >38μm ASTM D7647 >40 1 Particles >71μm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) >21/19/13 Debris scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG FLUID CONDITION Sodium ppm ASTM D5185m >21 0								
Particles >21μm ASTM D7647 >160 11 Particles >38μm ASTM D7647 >40 1 Particles >71μm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) >21/19/16 21/17/13 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG FLUID CONDITION Sodium ppm ASTM D5185m >21 0								
Particles > 38μm								
Particles > 71 μm								
Oil Cleanliness ISO 4406 (c) >21/19/16 21/17/13								
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG FLUID CONDITION Sodium ppm ASTM D5185m >21 0						-		
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML NO			scalar					
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML N								
Appearance scalar *Visual NORML NORM								
Odor scalar *Visual NORML NORML								
Emulsified Water scalar *Visual >0.1 NEG FLUID CONDITION Sodium ppm ASTM D5185m >21 0								
				*Visual				
	ELUID CONDITION	0		AOTM DESO				
Doron ACTM DE10Em	FLUID CONDITION				>21			
The ANTI-media accordable for this fluid. The considerance the after	The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0		
quitable for further convice								
Molybdenum ppm Asim balasin 0		,						
Manganese ppm ASTM D5185m 0								
Magnesium ppm ASTM D5185m 0 Colorium ACTM D6185m 07					0.7			
Calcium ppm ASTM D5185m 87 Shows how as a few search of the control of the cont								
Phosphorus ppm ASTM D5185m 727 672								
Zinc ppm ASTM D5185m 900 876								
Sulfur ppm ASTM D5185m 1500 1867 Acid Number (AN) mg VOIVs ACTM D5045 1.0 0.04								
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.81		. ,						
Visc @ 40°C cSt ASTM D445 65 57.7		VISC (W 40°C	COL	49 LIVI D449	00	01.1		





Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0049693 Lab Number : 06122272

Unique Number: 10936423

Diagnosed

Test Package : CONST (Additional Tests: PQ, PrtCount) 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.

: 20 Mar 2024 - Wes Davis

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

KendalLeanne@lec1.com

T: F: (740)373-5570

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

Received

Tested

: 19 Mar 2024

: 20 Mar 2024