



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

NORMAL



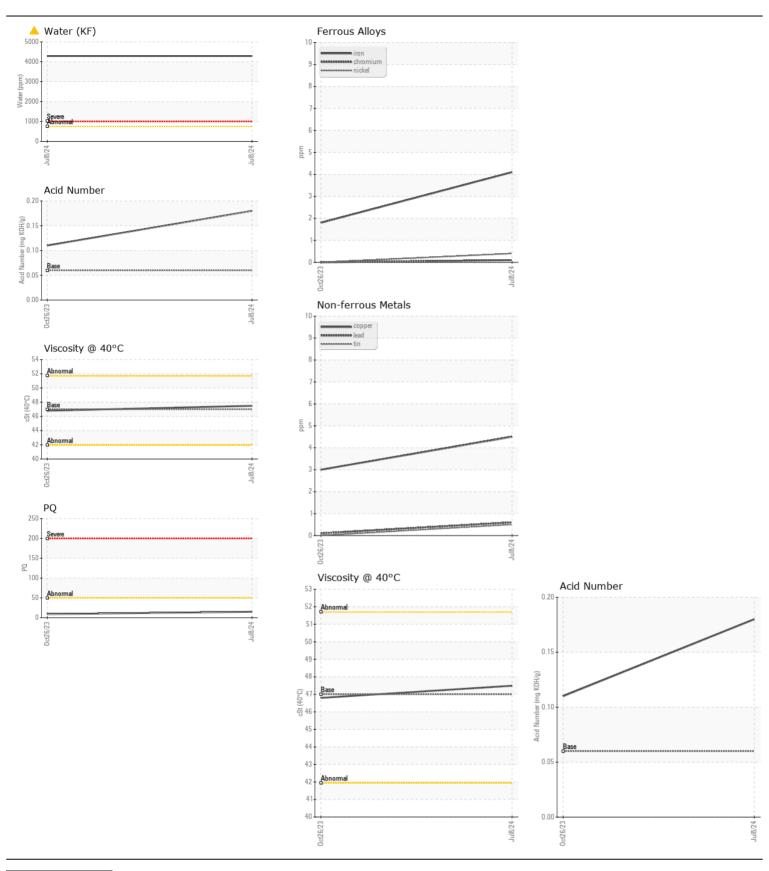
Store 3 - Norton

JOHN DEERE 250G 1FF250GXKNF612004

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Clicanged Filter Age) Inter Client Info	TIITAOTII TITBITAOLIO OOI LITE	.X -401114 (00		'				
We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Client Info	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: CHECK FOR WATER/CONTAMINATION) WEAR All component wear rates are normal. WEAR All minimum ppm ASTID 0886m >2 4 2 2 9 1 0 0 9 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Sample Number		Client Info		LEC0049653	,	,
Dearliness of the system fluid, We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: CHECK FOR WATER/CONTAMINATION) Client Info Mage Parts Client Info Mage Male Mal	you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: CHECK FOR	Sample Date		Client Info		08 Jul 2024	26 Oct 2023	
COUNTAMINATION Filter Age Nrs		Machine Age	hrs	Client Info		482	461	
Customer Sample Comment: CHECK FOR Oil Changed Sample Status Client Info Not Changed Sample Status Not Sample Status Client Info Not Sample Status Client Info Not Sample Status Not Sample St		Oil Age	hrs	Client Info		482	461	
VEAR PQ		Filter Age	hrs	Client Info		482	461	
Sample Status		Oil Changed		Client Info		Not Changd	Not Changd	
PC		Filter Changed		Client Info		Not Changd	Not Changd	
Iron		Sample Status				ABNORMAL	NORMAL	
Iron								
All component waar rates are normal. Chromium ppm ASTM D5185m >5 <1 0 Nickel ppm ASTM D5185m >5 <1 <1 Titanium ppm ASTM D5185m >5 <1 <1 Titanium ppm ASTM D5185m >5 <1 <1 All uminum ppm ASTM D5185m >5 <1 <1 0 ASTM D5185m >5	WEAR							
Nickel ppm ASTM (5185m 55 <1 0	All common and the co							
Titanium ppm ASTM D5185m < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	All component wear rates are normal.		ppm				-	
Silver ppm ASTM D5185m 2 1 0			ppm		>5		0	
Aluminum ppm ASTM D5185m >9 2 1			ppm					
Lead			ppm				-	
Copper ppm ASTM D5185m >50 4 3 3								
Time								
Vanadium								
White Metal Yellow Metal Scalar "Visual NONE NONE NONE NONE NONE NONE NONE NON			ppm		>5	1	-	
Vellow Metal Scalar *Visual NONE NO							-	
Silicon ppm ASTM D5185m >20 6 4						_		
Potassium ppm ASTM D5185m ≥20 6 4		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m ≥20 6 4	CONTAMINIATION	Cilioon	nnm	ACTM DE10Em	. 11	1	4	
Appearance is hazy. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate concentration of visible dirt/debris present in the oil. Moderate particles >4μm	CONTAININATION		• • •				1	
Particles > 4µm	present in the oil. Moderate concentration of visible dirt/debris present							
in the oil. Particles >4µm ASTM D7647 >80000 688 18152 688								
Particles >6µm ASTM D7647 >20000 688 Particles >14µm ASTM D7647 >640 15 Particles >3µm ASTM D7647 >640 5 Particles >71µm ASTM D7647 >40 0 Particles >71µm ASTM D5185m NONE NONE NONE Particles >71µm ASTM D5185m NONE NONE NONE Particles >71µm ASTM D5185m NONE NONE NONE Particles >71µm ASTM D5185m NONE		•	ppiii					
Particles > 14µm ASTM D7647 >640 15 Particles > 21µm ASTM D7647 >160 5 Particles > 38µm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) ≥2321/16 21/17/11 Silt Scalar *Visual NONE NONE NONE NONE Particles > 38µm ASTM D7647 >10 0 Particles > 38µm ASTM D7647 >10 Oil Cleanliness ISO 4406 (c) ≥2321/16 21/17/11 Silt Scalar *Visual NONE NONE NONE NONE NONE Amoperance Scalar *Visual NORML N								
Particles > 21 µm								
Particles >39μm ASTM D7647 >40 0 Particles >71μm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) ≥232t1/6 21/17/111 Silt Scalar *Visual NONE NONE NONE Debris Scalar *Visual NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE NONE NONE Appearance Scalar *Visual NORML								
Particles >71 μm Oil Cleanliness ISO 4406 (c) \$23/21/16 21/17/11 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NORML NO								
Oil Cleanliness ISO 4406 (c)								
Silt Scalar *Visual NONE NONE NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML							-	
Debris Scalar *Visual NONE A MODER NONE Sand/Dirt Scalar *Visual NONE NONE NONE Scalar *Visual NONE NONE NONE Scalar *Visual NORML			scalar			NONE		
Sand/Dirt Scalar *Visual NONE NONE HAZY NORML								
Appearance Scalar *Visual NORML MORML NORML NOR								
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.075 ▲ 0.2% NEG FLUID CONDITION Sodium ppm ASTM D5185m >21 1 0 Boron ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 1 0 Manganese ppm ASTM D5185m <1 0 Magnesium ppm ASTM D5185m <1 <1 Calcium ppm ASTM D5185m <1 <1 Phosphorus ppm ASTM D5185m 4 4 Zinc ppm ASTM D5185m 0 34 30 Zinc ppm ASTM D5185m 13 63 20 Acid Number (AN) mg KOHlg ASTM D8045 0.06 0.18 0.11 <		Appearance		*Visual		HAZY	NORML	
Sodium ppm ASTM D5185m >21 1 0			scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 0 0 0		Emulsified Water	scalar	*Visual	>0.075	0.2%	NEG	
Boron ppm ASTM D5185m 0 0 0								
Barium ppm ASTM D5185m 1 0 Molybdenum ppm ASTM D5185m <1	FLUID CONDITION				>21			
Molybdenum ppm ASTM D5185m <1 0	The AN level is acceptable for this fluid.							
Manganese ppm ASTM D5185m <1			ppm					
Magnesium ppm ASTM D5185m <1		•						
Calcium ppm ASTM D5185m 4 4 Phosphorus ppm ASTM D5185m 827 465 527 Zinc ppm ASTM D5185m 0 34 30 Sulfur ppm ASTM D5185m 13 63 20 Acid Number (AN) mg KOH/g ASTM D8045 0.06 0.18 0.11		-	ppm					
Phosphorus ppm ASTM D5185m 827 465 527 Zinc ppm ASTM D5185m 0 34 30 Sulfur ppm ASTM D5185m 13 63 20 Acid Number (AN) mg KOH/g ASTM D8045 0.06 0.18 0.11		•						
Zinc ppm ASTM D5185m 0 34 30 Sulfur ppm ASTM D5185m 13 63 20 Acid Number (AN) mg KOH/g ASTM D8045 0.06 0.18 0.11								
Sulfur ppm ASTM D5185m 13 63 20 Acid Number (AN) mg KOH/g ASTM D8045 0.06 0.18 0.11								
Acid Number (AN) mg KOH/g ASTM D8045 0.06 0.18 0.11			• • •					
Visc @ 40°C CSt ASIM D445 47 47.49 46.8		Visc @ 40°C	cSt	ASTM D445	47	47.49	46.8	





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0049653

Lab Number : 06232742 Unique Number : 11116235

Tested : 10 Jul 2024 - Doug Bogart Diagnosed Test Package : CONST (Additional Tests: KF, PQ)

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: F: (740)373-5570

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

Received

: 10 Jul 2024

: 10 Jul 2024