WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

JOHN DEERE 9670 1H009670SAB0741755

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ILOGINIVILIADA HOIA	Sample Number	COIVI	Client Info	LIIIIU/AUII	JR0193221		
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jan 2024		
	Machine Age	hrs	Client Info		2781		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		500		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		43		
Valve wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	<u> </u>		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m	NIONIE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	10		
	Potassium	ppm	ASTM D5185m		8		
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
THID CONDITION	0 - 45		AOTA DEADE	04	•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		233		
	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		245		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		865 1387		
	Phosphorus	ppm	ASTM D5185m		910		
	Zinc	ppm	ASTM D5185m		1093		
	Sulfur	ppm	ASTM D5165III		3397		
	Oxidation	ppm Abs/.1mm	*ASTM D7414	>25	3397 15.4		
	Base Number (BN)				9.0		
	Visc @ 100°C	cSt	ASTM D2696 ASTM D445		14.2		





Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0193221 Recieved : 06064031 : 10835413

: 18 Jan 2024 Diagnosed

: 20 Jan 2024 Diagnostician : Don Baldridge

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.

JRE - STATESVILLE 635 MOCKSVILLE HWY STATESVILLE, NC US 28625

Contact: SCOTT REID sreid@jrenet.com T: (704)872-6411

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