WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

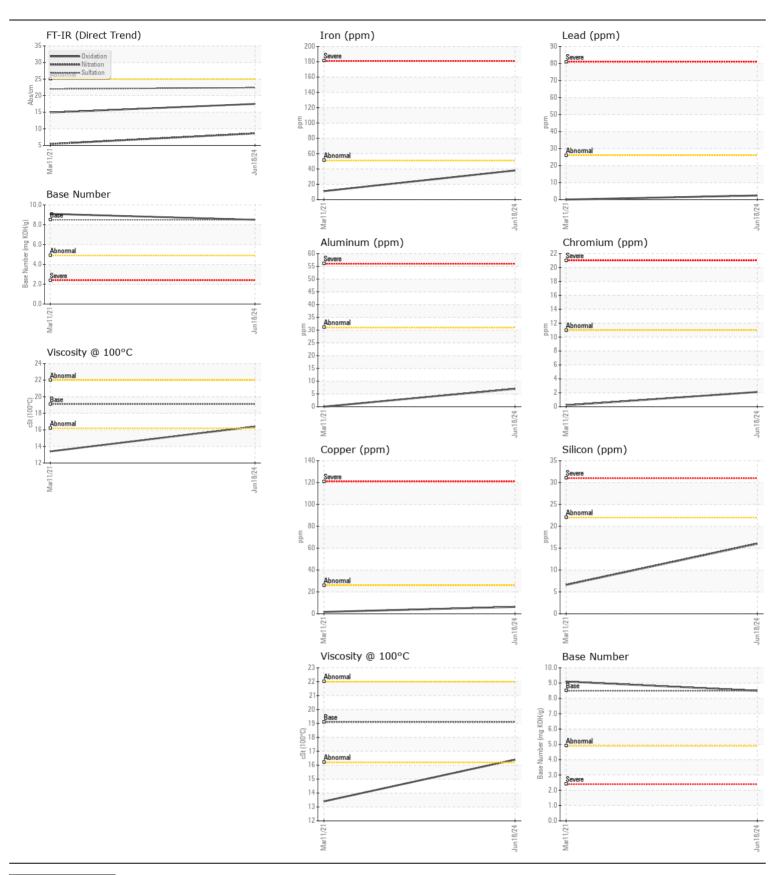
[W9019]

JOHN DEERE H1590586

Diesel Engine

DIESEL ENGINE OIL SAE 50 (3 GAL)

DIESEL ENGINE OIL SAE 30 (3 GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: W9019)	Sample Number		Client Info		JR0196900	JR0078943	
	Sample Date		Client Info		18 Jun 2024	11 Mar 2021	
	Machine Age	hrs	Client Info		3529	3529	
	Oil Age	hrs	Client Info		3529	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	38	11	
	Chromium	ppm	ASTM D5185m	-	2	<1	
	Nickel	ppm	ASTM D5185m		2	<1	
	Titanium	ppm	ASTM D5185m	70	- <1	<1	
	Silver	ppm	ASTM D5185m	~3	0	<1	
	Aluminum	ppm	ASTM D5185m		7	0	
	Lead	ppm	ASTM D5185m		2	0	
	Copper	ppm	ASTM D5185m		6	2	
	Tin	ppm	ASTM D5185m		1	0	
	Vanadium	ppm	ASTM D5185m	77	- <1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
				-			
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	16	7	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	10	<1	
	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	5.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>31	6	3	
	Boron	ppm	ASTM D5185m		255	327	
	Barium	ppm	ASTM D5185m	10	16	0	
	Molybdenum	ppm	ASTM D5185m		189	112	
	Manganese	ppm	ASTM D5185m		2	<1	
	Magnesium	ppm	ASTM D5185m	450	738	565	
	Calcium	ppm	ASTM D5185m		1769	1450	
	Phosphorus	ppm	ASTM D5185m		1079	681	
	Zinc	ppm	ASTM D5185m		1338	755	
	Sulfur	ppm	ASTM D5185m		3571	2015	
	Oxidation	Abs/.1mm	*ASTM D7414		17.5	14.9	
	Base Number (BN)		ASTM D2896		8.5	9.1	
	, ,	0 0					
	Visc @ 100°C	cSt	ASTM D445	19.1	16.4	13.4	





Certificate L2367

Laboratory Sample No.

Lab Number : 06215467

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0196900

Received **Tested** Unique Number : 11088331 Diagnosed Test Package: MOBCE (Additional Tests: TBN)

: 21 Jun 2024

: 21 Jun 2024 - Don Baldridge

: 20 Jun 2024

JRE - HOPE MILLS/FAYETTEVILLE 5039 HWY 301 SOUTH

HOPE MILLS, NC US 28348

Contact: FAYETTEVILLE SHOP stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com T:

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.

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

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