WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

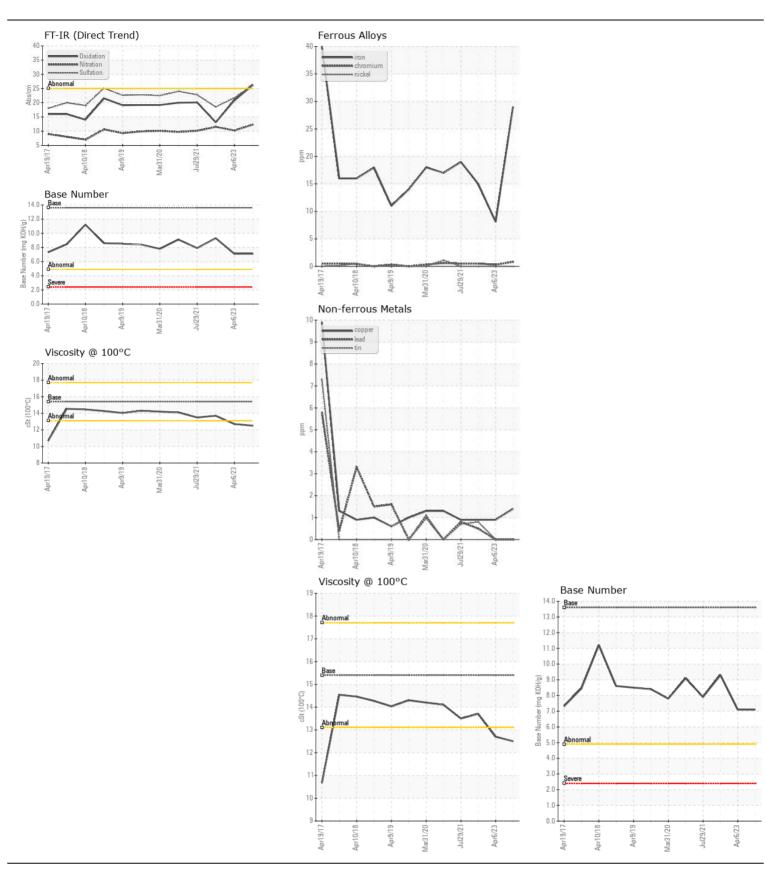
Machine Id

JOHN DEERE 50G 1FF050GXEGH284639

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0225103	JR0164374	JR0124141
Resample at the next service interval to monitor.	Sample Date		Client Info		15 Jul 2024	06 Apr 2023	12 Apr 2022
	Machine Age	hrs	Client Info		6701	5698	4989
	Oil Age	hrs	Client Info		0	0	480
	Filter Age	hrs	Client Info		0	0	480
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	29	8	15
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	3	4
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 22	21	Л	14
CONTAININATION	Potassium	ppm	ASTM D5185m		<1	4	0
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.5	0.4	0.6
	Nitration	Abs/cm	*ASTM D7624		12.3	10.2	11.5
	Sulfation	Abs/.1mm	*ASTM D7024		26.2	21.7	18.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
		scalar	*Visual	NORML	NORML	NORML	NORM
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	1	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		109	12	218
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		224	62	237
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		737	914	838
	Calcium	ppm	ASTM D5185m		1391	1098	1469
	Phosphorus	ppm	ASTM D5185m		743	1015	899
	Zinc	ppm	ASTM D5185m		883	1221	1036
	Sulfur	ppm	ASTM D5185m		3083	3822	2728
	Oxidation	Abs/.1mm	*ASTM D7414		26.3	20.8	13.1
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.1	7.1	9.3
	Visc @ 100°C	cSt	ASTM D445		12.5	12.7	13.7







Certificate L2367

Laboratory Sample No.

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

: JR0225103 Lab Number : 06238927 Unique Number : 11127761

Received

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

: 18 Jul 2024 : 18 Jul 2024 - Don Baldridge

: 17 Jul 2024

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.

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292

Report Id: JAMASH [WUSCAR] 06238927 (Generated: 07/18/2024 18:23:10) Rev: 1

Contact/Location: DAVID ZIEG - JAMASH

JRE - ASHLAND

ASHLAND, VA

US 23005

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