WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

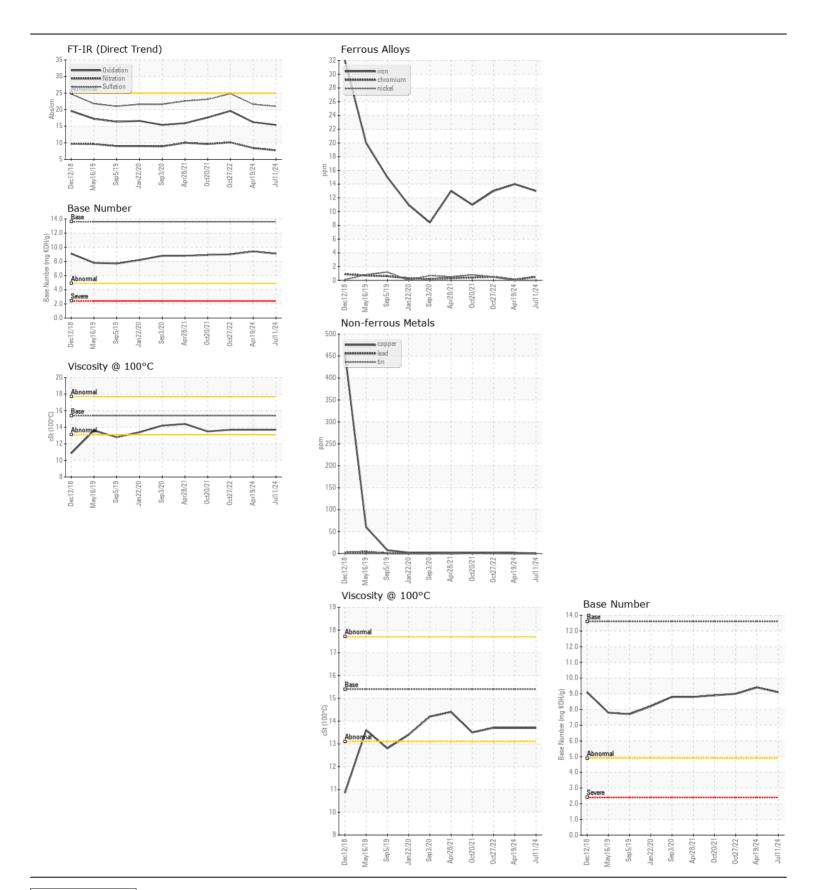


Machine Id JOHN DEERE 544K 1DW544KZJF689419

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (25 QTS)

JOHN DEERE ENGINE OIL PLU	JS 50 II 15W	40 (2	QIS)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMIERSATIST	Sample Number		Client Info		JR0222388	JR0212418	JR0144960
Resample at the next service interval to monitor.	Sample Date		Client Info		11 Jul 2024	19 Apr 2024	27 Oct 2022
	Machine Age	hrs	Client Info		7510	7161	5316
	Oil Age	hrs	Client Info		349	0	4088
	Filter Age	hrs	Client Info		0	0	0
	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	13	14	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	5	3
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	2	1
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	9	6	7
There is no hadronic of any analysis attention in the city	Potassium	ppm	ASTM D5185m	>20	3	1	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.4	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.6	24.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	1	3
	Boron	ppm	ASTM D5185m		334	234	162
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	4	0
	Molybdenum	ppm	ASTM D5185m		304	235	223
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		989	780	716
	Calcium	ppm	ASTM D5185m		1646	1383	1384
	Phosphorus	ppm	ASTM D5185m		947	855	779
	Zinc	ppm	ASTM D5185m		1303	1028	967
	Sulfur	ppm	ASTM D5185m		3390	3144	3054
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	16.2	19.6
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.1	9.4	9.0
	Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.7	13.7





Report Id: RWMGAR [WUSCAR] 06237635 (Generated: 07/18/2024 09:48:04) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0222388 Lab Number : 06237635 Unique Number : 11126469

Received **Tested** Diagnosed

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

: 16 Jul 2024 : 17 Jul 2024

: 18 Jul 2024 - Don Baldridge

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP

F: (919)779-5432

Test Package : CONST (Additional Tests: TBN) Certificate L2367 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.

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