WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

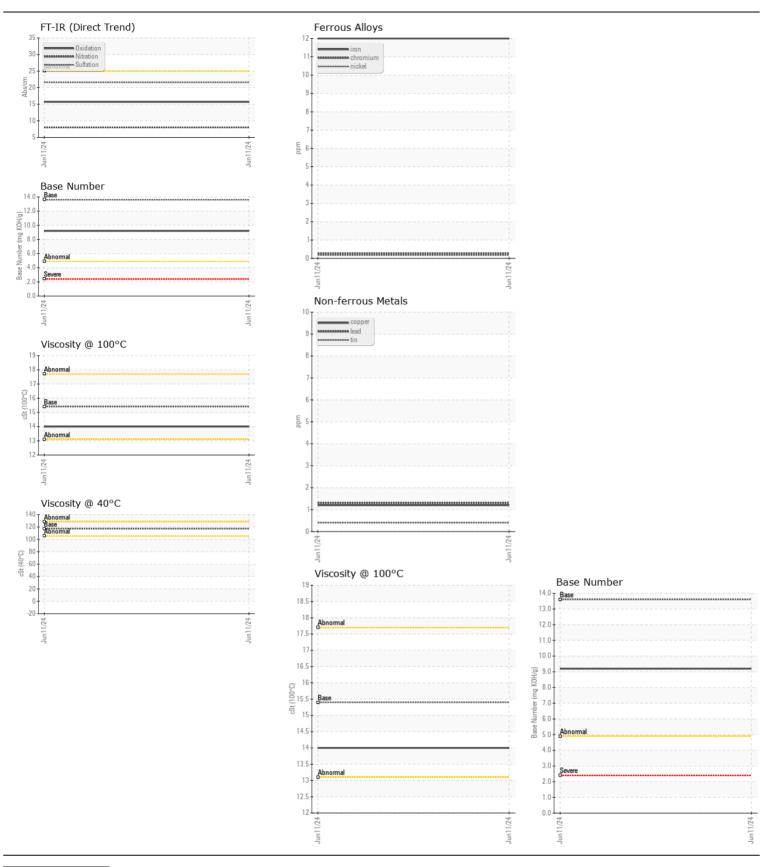
Machine Id

JOHN DEERE 544L F685945

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
NECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	JR0185004		
Resample at the next service interval to monitor.	Sample Date		Client Info		11 Jun 2024		
	Machine Age	hrs	Client Info		3827		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1113	Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status		Olioni illio		NORMAL		
WEAR	Iron	ppm	ASTM D5185m		12		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	5		
	Lead	ppm	ASTM D5185m	>26	1		
	Copper	ppm	ASTM D5185m	>26	1		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7		
SONTAMINATION	Potassium	ppm	ASTM D5185m		2		
There is no indication of any contamination in the oil.	Fuel	РРП	WC Method		- <1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	20.L1	NEG		
	Soot %	%	*ASTM D7844	\3	0.4		
	Nitration	Abs/cm	*ASTM D7624		8.0		
	Sulfation	Abs/.1mm	*ASTM D7415		21.6		
	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		*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1		
The BN regult indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		270		
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		
	Molybdenum	ppm	ASTM D5185m		262		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		820		
	Calcium	ppm	ASTM D5185m		1362		
	Phosphorus	ppm	ASTM D5185m		813		
	Zinc	ppm	ASTM D5185m		1063		
	Sulfur	ppm	ASTM D5185m		3189		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.2		





Laboratory Sample No.

Lab Number : 06209873

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0185004

Received **Tested** Unique Number : 11082737 Diagnosed

: 14 Jun 2024 : 17 Jun 2024 Test Package : CONST (Additional Tests: KV40, TBN)

: 17 Jun 2024 - Angela Borella

JRE - ASHEVILLE 101 BRUCE DRIVE ASHEVILLE, NC US 28806

Contact: Randy Warren randy.warren@jamesriverequipment.com

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (528)667-0176 F: (828)667-4865