

WEAR CONTAMINATION FLUID CONDITION

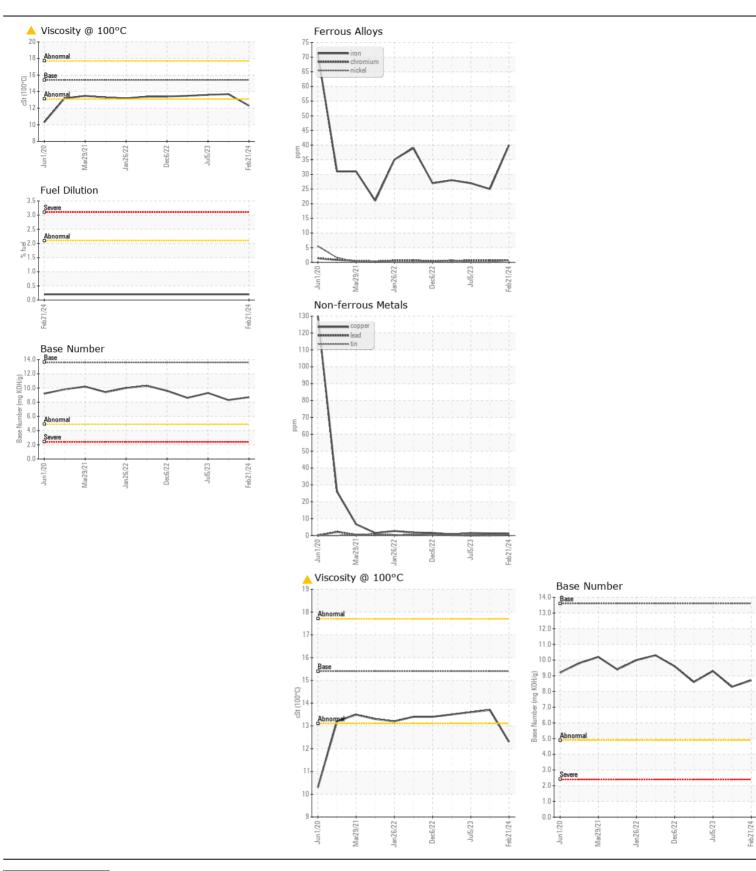
NORMAL NORMAL ABNORMAL



JOHN DEERE 744K 1DW744KXCJF689230

Diesel Engine

		40 (30					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0203066	JR0190050	JR0176108
	Sample Date		Client Info		21 Feb 2024	19 Oct 2023	05 Jul 2023
	Machine Age	hrs	Client Info		4983	4438	3946
	Oil Age	hrs	Client Info		545	0	490
	Filter Age	hrs	Client Info		545	0	490
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	40	25	27
WEATT	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	70	0	<1	0
	Silver	ppm	ASTM D5185m	\3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	5	4
	Lead	ppm		>26	<1	<1	0
	Copper	ppm	ASTM D5185m		1	1	2
	Tin	ppm	ASTM D5185m	>4	1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	7	8
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	5	3
	Fuel	%	ASTM D3524		0.2	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	7.5	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.1	20.7	22.2
	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	1	2	1
	Boron	ppm	ASTM D5185m		188	261	276
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		198	267	257
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		660	842	876
	Calcium	ppm	ASTM D5185m		1732	1553	1510
	Phosphorus	ppm	ASTM D5185m		889	912	948
	Zinc	ppm	ASTM D5185m		1061	1156	1177
	Sulfur	ppm	ASTM D5185m		3009	3227	3926
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.8	15.9
	Base Number (BN)				8.7	8.3	9.3
	-acc						







Laboratory Sample No.

: JR0203066 Lab Number : 06097406 Unique Number: 10890259

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

Received **Tested** Diagnosed

: 22 Feb 2024 : 26 Feb 2024

: 26 Feb 2024 - Sean Felton

MANASSAS PARK, VA US 20111 Contact: DON VEST

JRE - MANASSAS PARK

9107 OWENS DRIVE

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

dvest@jamesriverequipment.com T: (703)631-8500

* - 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) F: (703)631-4715