WEAR CONTAMINATION FLUID CONDITION

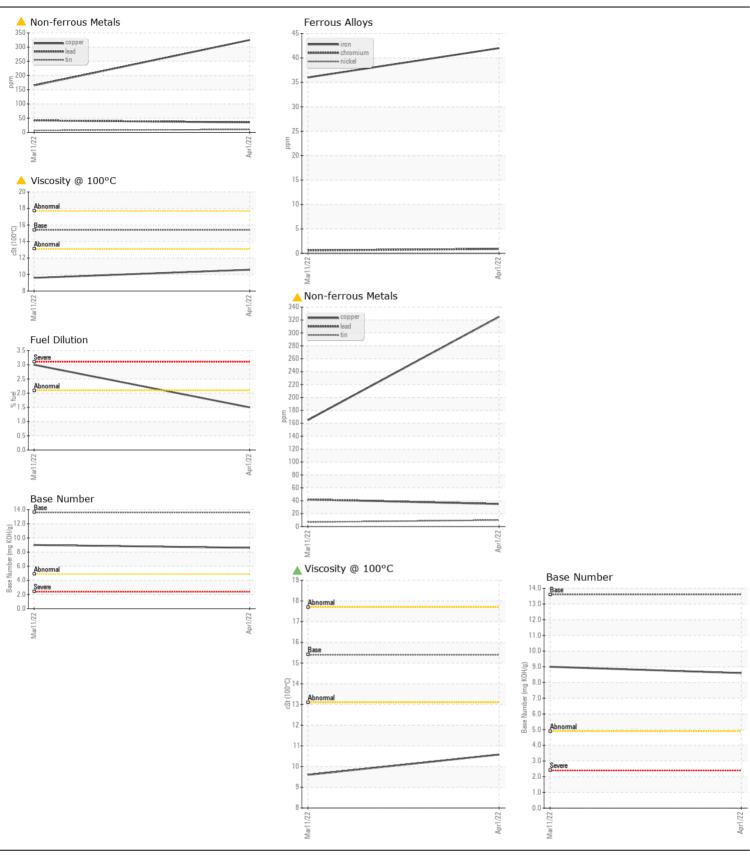
ABNORMAL NORMAL ATTENTION

[W32084]

JOHN DEERE 944K 1DW944KXAML703645

Component **Diesel Engine**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0121370	JR0121181	
	Sample Date		Client Info		01 Apr 2022	11 Mar 2022	
	Machine Age	hrs	Client Info		310	238	
	Oil Age	hrs	Client Info		310	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	42	36	
The copper level is abnormal. All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		- <u>-</u> <1	<1	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m	>31	4	3	
	Lead	ppm	ASTM D5185m		35	42	
	Copper	ppm	ASTM D5185m		<u> </u>	<u>▲</u> 165	
	Tin	ppm	ASTM D5185m		10	7	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		11	12	
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		10	4	
	Fuel	%		>2.1	1.5	△ 3.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	11.5	10.9	
	Sulfation	Abs/.1mm	*ASTM D7415		25.6	25.6	
	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	Sodium	ppm	ASTM D5185m	>31	5	<1	
	Boron	ppm	ASTM D5185m		81	112	
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	
	Molybdenum	ppm	ASTM D5185m		227	236	
	Manganese	ppm	ASTM D5185m		10	9	
	Magnesium	ppm	ASTM D5185m		738	763	
	Calcium	ppm	ASTM D5185m		1588	1451	
	Phosphorus	ppm	ASTM D5185m		960	861	
	Zinc	ppm	ASTM D5185m		1110	988	
	Sulfur	ppm	ASTM D5185m		2606	2417	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	21.2	
	Base Number (BN)				8.6	9.0	
	Visc @ 100°C	cSt	ASTM D445		▲ 10.58	△ 9.6	







Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0121370 Recieved : 06 Apr 2022 : 05511516 Diagnosed : 09 Apr 2022

: 9920790 Diagnostician : Don Baldridge **Test Package**: CONST (Additional Tests: PercentFuel, TBN) 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) WAKE STONE CORP

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