

Machine Id JOHN DEERE 944K 1DW944KXAML703645 Component Diesel Engine Fluid {not provided} (12 GAL)

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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. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0222588	JR0202774	JR0197570
	Sample Date		Client Info		24 Jun 2024	15 Feb 2024	05 Feb 2024
	Machine Age	hrs	Client Info		5072	4497	4494
	Oil Age	hrs	Client Info		5072	3	378
	Filter Age	hrs	Client Info		0	3	378
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>51	67	4	40
	Chromium	ppm	ASTM D5185m	>11	2	<1	<1
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).	Nickel	ppm	ASTM D5185m	>5	1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>31	8	3	4
	Lead	ppm	ASTM D5185m	>26	12	<1	<b>5</b> 3
	Copper	ppm	ASTM D5185m	>26	<b>4</b> 54	4	15
	Tin	ppm	ASTM D5185m	>4	8	0	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		14	7	11
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		7	2	5
	Fuel	%	ASTM D3524		0.5	0.2	▲ 24.5
	Water	0/	WC Method	>0.21	NEG	NEG	NEG
	Glycol	%	*ASTM D2982	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		1	0	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	5.4 19.8	10.7 23.7
	Sulfation Silt	Abs/.1mm	*ASTM D7415	>30 NONE	25.4 NONE	NONE	NONE
	Debris	scalar	*Visual *Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
	Co di un			04		0	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6	0	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		47	283	26
	Barium	ppm	ASTM D5185m		3	4	6
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		266	237 3	203 <1
	Manganese	ppm			11 701		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		791 1361	709 1206	660 1012
		ppm				868	585
	Phosphorus	ppm	ASTM D5185m		810 1054		
	Zinc	ppm	ASTM D5185m		1054	946	774

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm *ASTM D7414 >25

ASTM D445

3295

14.0

9.3

10.1

2167

19.0

5.7

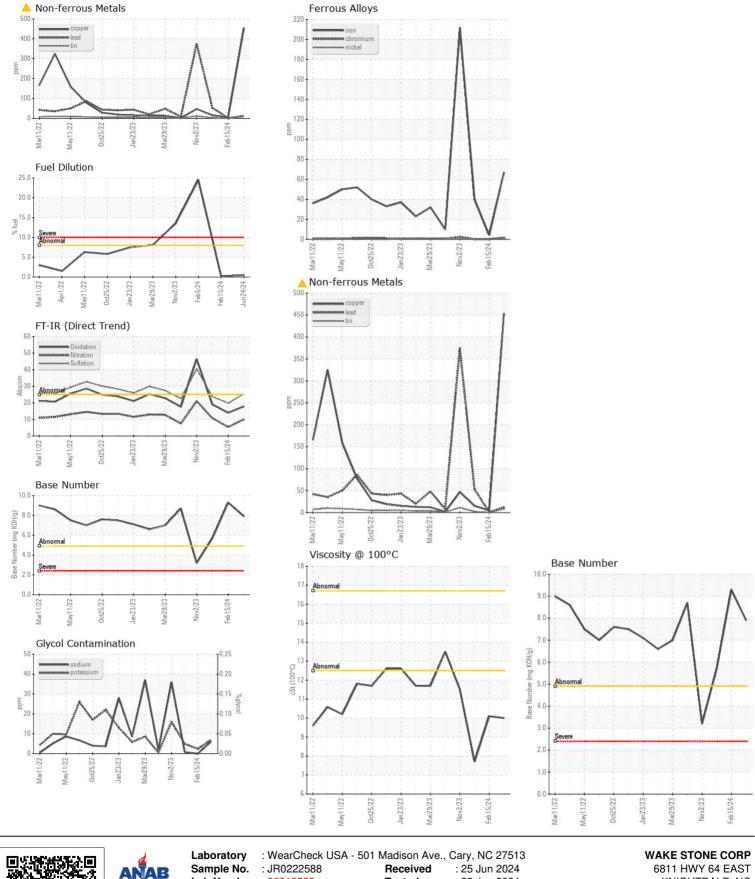
**A** 7.7

2733

17.9

7.9

10.0



Lab Number : 06219533 KNIGHTDALE, NC Tested : 28 Jun 2024 : 28 Jun 2024 - Jonathan Hester US 27545 Unique Number : 11097730 Diagnosed Test Package : CONST ( Additional Tests: FuelDilution, Glycol, PercentFuel, TBN ) Contact: PAUL SPRUILL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. paulspruill@wakestonecorp.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)

Submitted By: RENN MASHBURN Page 2 of 2

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