

[W52737 ADVANSIX] JOHN DEERE 844K 1DW844KAEJF688182 Component

Diesel Engine

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

JOHN DEERE ENGINE OIL PLUS 50 II 151940	(GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0212029	JR0200059	JR016598
	Sample Date		Client Info		01 Jul 2024	17 Apr 2024	12 Jan 202
	Machine Age	hrs	Client Info		9593	8929	8426
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Change
	Filter Changed		Client Info		Changed	Changed	Change
	Sample Status				SEVERE	ABNORMAL	NORMA
VEAR	Iron	ppm	ASTM D5185m	>51	14	12	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	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	7	5	7
	Lead	ppm	ASTM D5185m	>26	13	5	3
	Copper	ppm	ASTM D5185m		12	9	10
	Tin	ppm	ASTM D5185m	>4	2	2	1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	6	9
SONTAMINATION	Potassium	ppm	ASTM D5185m		6	1	4
There is a high amount of fuel present in the oil.	Fuel	%	ASTM D3524		▲ 13.3	A 8.9	7.5
	Water	, -	WC Method		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	8.7	8.1	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	22.0	22.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NOR
	Odor	scalar	*Visual	NORML	NORML	NORML	NORI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	<u>_</u> 21	4	3	3
	Boron	ppm	ASTM D5185m	201	77	178	173
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		1	<1	0
	Molybdenum	ppm	ASTM D5185m		194	219	219
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		555	740	767
	Calcium	ppm	ASTM D5185m		1345	1331	1309
	Phosphorus	ppm	ASTM D5185m		716	787	773
	Zinc	ppm	ASTM D5185m		888	894	984
	<u> </u>	1212					000

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896 13.6

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.4

15.8

7.1

10.6

3226 2785

15.6

11.1

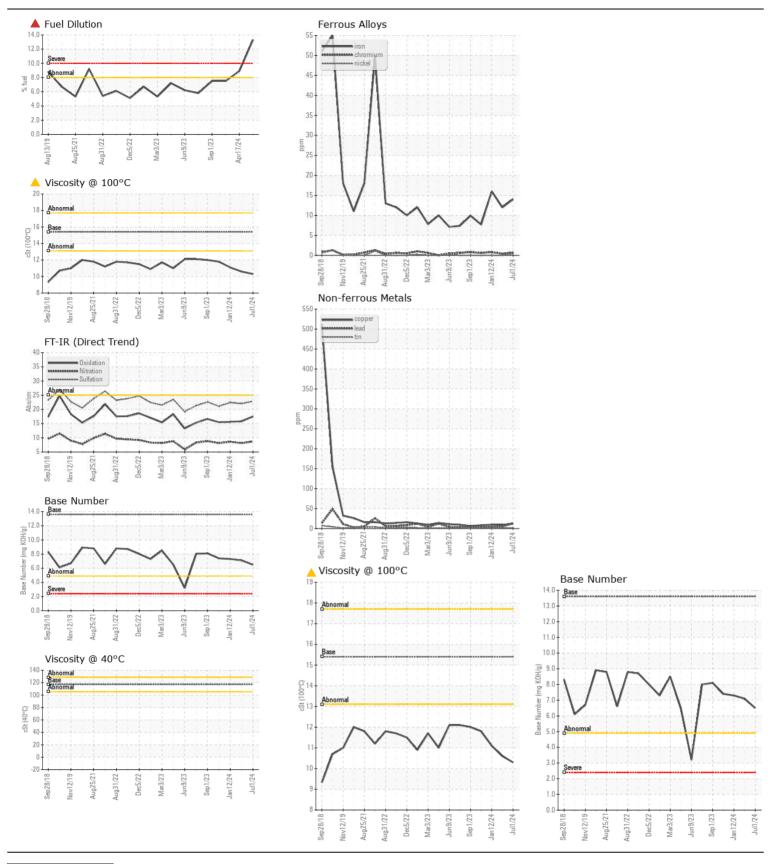
7.3

2401

17.5

6.5

10.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0212029 Received 11047 LEADBETTER RD : 02 Jul 2024 õ Lab Number : 06225837 ASHLAND, VA Tested : 03 Jul 2024 US 23005 Unique Number : 11109330 Diagnosed : 03 Jul 2024 - Jonathan Hester Test Package : CONST (Additional Tests: KV40, PercentFuel, TBN) Contact: DAVID ZIEG Certificate L2367 dzieg@jamesriverequipment.com 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. T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2