

Machine Id JOHN DEERE 410E 1DW410EBCNF716033

Machine Id JOHN Component Diesel Fluid

Component Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0220154	JR0193426	JR0170793
Resample at the next service interval to monitor.	Sample Date		Client Info		26 Jun 2024	27 Nov 2023	14 Jul 2023
	Machine Age	hrs	Client Info		2520	1651	1000
	Oil Age	hrs	Client Info		869	1651	1000
	Filter Age	hrs	Client Info		0	1000	1000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
						40	4.0
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		14	19	18
	Chromium Nickel	ppm	ASTM D5185m		<1 0	<1	<1
	Titanium	ppm	ASTM D5185m ASTM D5185m	>0		<1 <1	0
	Silver	ppm		. 0	<1 0	0	0
	Aluminum	ppm	ASTM D5185m ASTM D5185m		5	4	3
	Lead	ppm	ASTM D5185m		5 4	6	7
		ppm	ASTM D5185m		4 18	40	113
	Copper Tin	ppm	ASTM D5185m		4	40 5	6
	Vanadium	ppm ppm	ASTM D5185m	>4	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	visuai			NONL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	8	7
	Potassium	ppm	ASTM D5185m	>20	0	3	3
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.7	8.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	23.2	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 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>31	3	1	5
	Boron	ppm	ASTM D5185m	201	169	165	226
	Barium	ppm	ASTM D5185m		<1	13	0
	Molybdenum	ppm	ASTM D5185m		246	269	260
	Manganese	ppm	ASTM D5185m		<1	1	2
	Magnesium	ppm	ASTM D5185m		879	828	919
	Calcium	ppm	ASTM D5185m		1598	1435	1554
	Phosphorus	ppm	ASTM D5185m		1000	879	960
	Zinc	ppm	ASTM D5185m		1192	1064	1154
	Sulfur	ppm	ASTM D5185m		3858	3010	3629
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	17.1	16.3
	Base Number (BN)				8.2	7.7	8.3
		y.comy		15.0		10.0	10.0

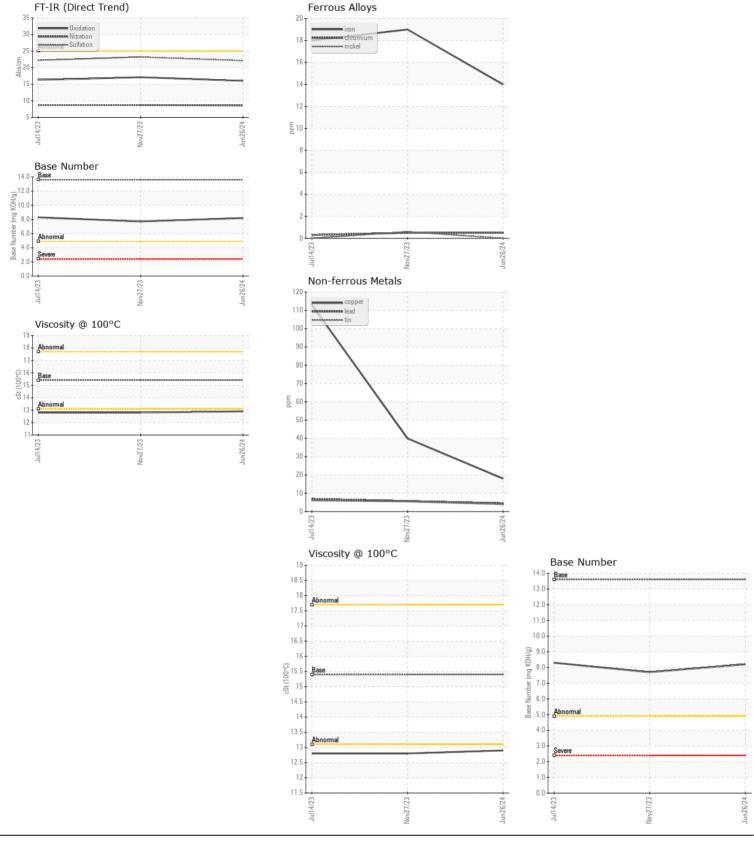
Visc @ 100°C cSt

ASTM D445 15.4

12.8

12.8

12.9



CK CONTRACTING Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0220154 Received 124-1 WOODING PL : 01 Jul 2024 Lab Number : 06224291 Tested KINGS MOUNTAIN, NC : 02 Jul 2024 Unique Number : 11102488 Diagnosed : 02 Jul 2024 - Wes Davis US 28086 Test Package : CONST (Additional Tests: TBN) Contact: TAM WRIGHT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. twright@ckcdllc.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)730-9948 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)730-9975

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Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2