

[AMES CONSTRUCTION] Machine Id JOHN DEERE 460E 1DW460EBPNF713713

Component Diesel Engine

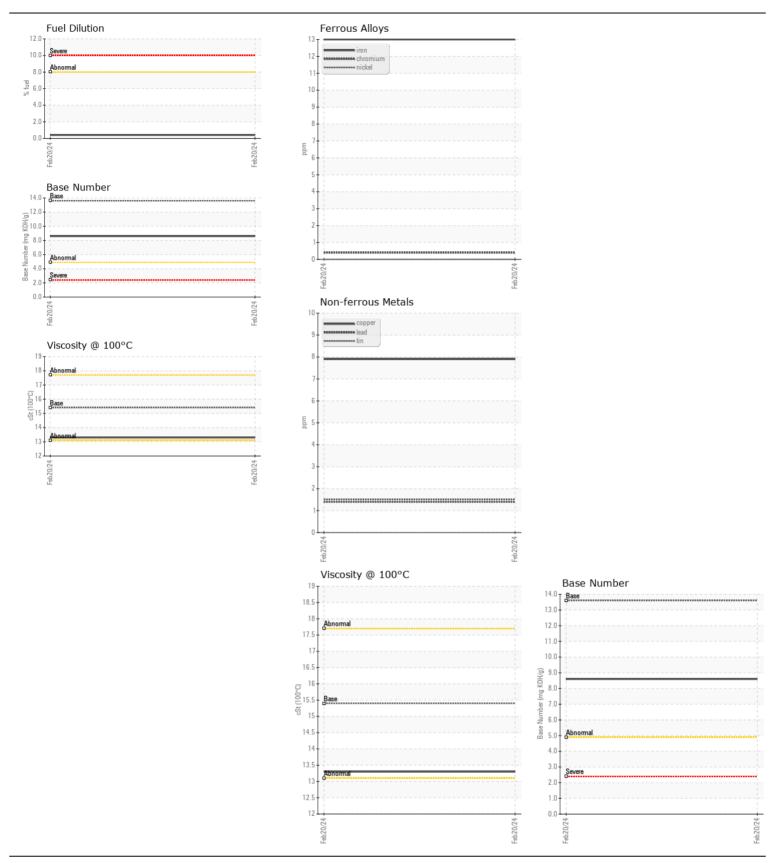
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0194746		
	Sample Date		Client Info		20 Feb 2024		
	Machine Age	hrs	Client Info		2981		
	Oil Age	hrs	Client Info		400		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	13		
	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	3		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m	>26	8		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>_</u> 22	7		
CONTAMINATION	Potassium	ppm	ASTM D5185m		0		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3103III		0.4		
	Water	70	WC Method		NEG		
	Glycol		WC Method	20.21	NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624		7.8		
	Sulfation	Abs/.1mm	*ASTM D7415		21.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<u>_</u> 91	2		
I LOID CONDITION	Boron	ppm	ASTM D5185m	201	227		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		236		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		769		
	Calcium	ppm	ASTM D5185m		1343		
	Phosphorus	ppm	ASTM D5185m		844		
	Zinc	ppm	ASTM D5185m		1000		
	Sulfur	ppm	ASTM D5185m		2846		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4		
	Base Number (BN)				8.6		
	()	0 - 9			-		

Visc @ 100°C cSt

ASTM D445 15.4

13.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - GREENSBORO** Sample No. : JR0194746 Received 411 SOUTH REGIONAL ROAD : 22 Feb 2024 Lab Number : 06097412 : 27 Feb 2024 GREENSBORO, NC Tested Unique Number : 10890265 : 27 Feb 2024 - Jonathan Hester US 27409 Diagnosed Test Package : CONST (Additional Tests: FUELDILUTION, PercentFuel, TBN) Contact: NICK GALLAHER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. NGALLAHER@JRENET.COM * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)668-2762 F: (336)665-9556 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)