

Machine Id JOHN DEERE 1FF035GXJMK296391 Componen

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 QTS)

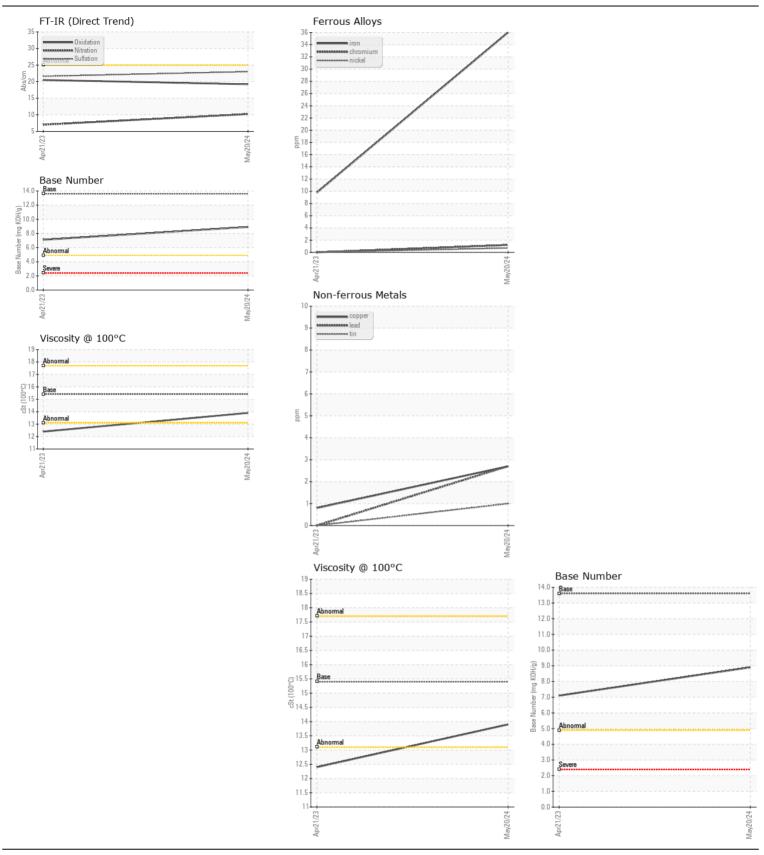
	5 (13)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217862	JR0168844	
	Sample Date		Client Info		20 May 2024	21 Apr 2023	
	Machine Age	hrs	Client Info		1065	511	
	Oil Age	hrs	Client Info		554	511	
	Filter Age	hrs	Client Info		554	511	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	36	10	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1	0	
	Nickel	ppm	ASTM D5185m	>5	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>31	7	3	
	Lead	ppm	ASTM D5185m	>26	3	0	
	Copper	ppm	ASTM D5185m	>26	3	<1	
	Tin	ppm	ASTM D5185m	>4	1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	18	16	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	0	
	Fuel		WC Method	>2.1	<1.0	1.9	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.6	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	7.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	21.6	
	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	3	2	
	Boron	ppm	ASTM D5185m		261	261	
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	0	
	Molybdenum	ppm	ASTM D5185m		264	243	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		853	739	
	Calcium	ppm	ASTM D5185m		1478	1413	
	Phosphorus	ppm	ASTM D5185m		947	790	
	Zinc	ppm	ASTM D5185m		1114	1010	
	Sulfur	ppm	ASTM D5185m		3528	3138	
	Oxidation	Abs/.1mm	*ASTM D7414		19.2	20.5	
	Base Number (BN)				8.9	7.1	
		~C+	ACTM D445	15 /	120	10/	

Visc @ 100°C cSt

ASTM D445 15.4

12.4

13.9



NPL CONSTRUCTION Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0217862 Received 7611 COPPERMINE DR : 21 May 2024 Æ Lab Number : 06185934 Tested : 22 May 2024 MANASSAS, VA Unique Number : 11042686 Diagnosed : 22 May 2024 - Wes Davis US 20109-2668 Test Package : CONST (Additional Tests: TBN) Contact: BRANDON Certificate L2367 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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2