

Store 9 - Marietta

JOHN DEERE 250G EX39 (S/N 1FF250GXPNF611949)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

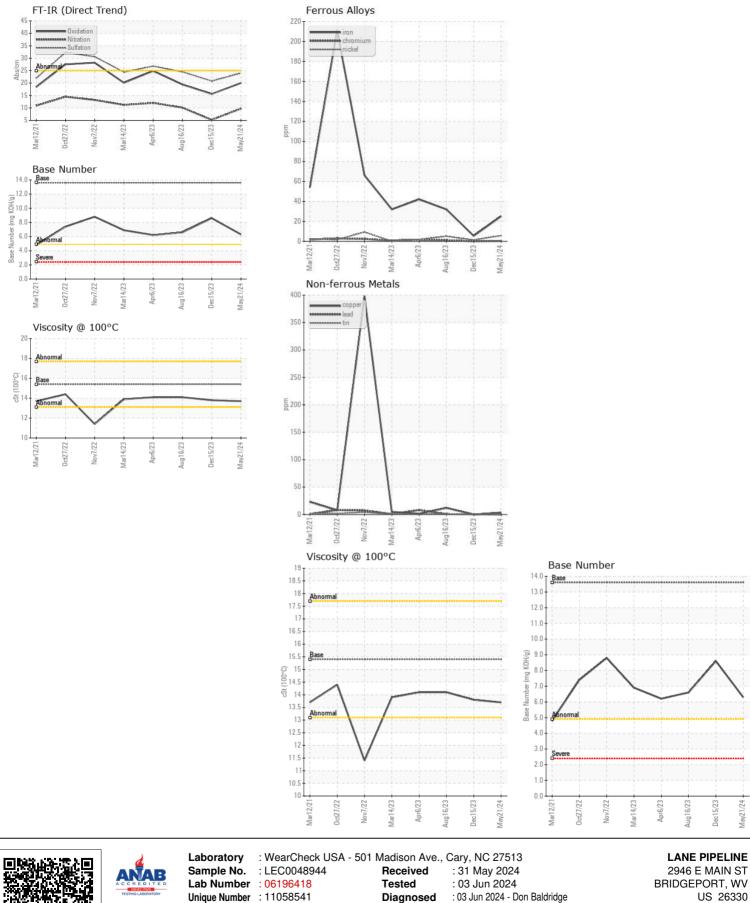
	J GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0048944	LEC0047656	LEC0043823
	Sample Date		Client Info		21 May 2024	15 Dec 2023	16 Aug 2023
	Machine Age	hrs	Client Info		2973	2457	1906
	Oil Age	hrs	Client Info		500	500	500
	Filter Age	hrs	Client Info		500	500	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	25	5	32
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	0	1
	Nickel	ppm	ASTM D5185m	>5	6	1	5
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	3	3	2
	Lead	ppm	ASTM D5185m	>26	0	<1	<1
	Copper	ppm	ASTM D5185m	>26	4	0	12
	Tin	ppm	ASTM D5185m	>4	<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>!20	7	5	6
	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.1	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	5.2	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	20.8	24.5
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	2	4
	Boron	ppm	ASTM D5185m		146	326	117
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.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		81	77	101
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		436	459	557
	Calcium	ppm	ASTM D5185m		1475	1431	1635
	Phosphorus	ppm	ASTM D5185m		1054	1042	1044
	Zinc	ppm	ASTM D5185m		1254	1261	1365
	Sulfur	ppm	ASTM D5185m		3257	3270	3589
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	15.6	19.4
	Base Number (BN)	mg KOH/g			6.3	8.6	6.6
	Vies @ 10000	. 01		4 - 4	10 -	10.0	

Visc @ 100°C cSt ASTM D445 15.4

14.1

13.8

13.7



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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JEFF SHERRY Page 2 of 2

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