

Store 9 - Marietta JOHN DEERE 333 34-019

Diesel Engine

{not provided} (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0050944		
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.	stem. Sample Date		Client Info		11 Jun 2024		
	Machine Age	hrs	Client Info		500		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		500		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	<pre></pre>	35		
	Chromium	ppm	ASTM D5185m		1		
The copper level is abnormal. All other component wear rates are normal.	are Nickel	ppm	ASTM D5185m		- <1		
	Titanium	ppm	ASTM D5185m	>5	<1		
	Silver		ASTM D5185m	. 2	<1 <1		
		ppm					
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		<u>▲</u> 202		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	A 39		
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel	%	ASTM D3524	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	10.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.7		
	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	>31	6		
	Boron	ppm	ASTM D5185m	201	113		
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.		ppm	ASTM D5185m		4		
	. Molybdenum	ppm	ASTM D5185m		209		
	Manganese	ppm	ASTM D5185m		203		
	Magnesium	ppm	ASTM D5185m		2 634		
	Calcium	ppm	ASTM D5185m		1799		
	Phosphorus	ppm	ASTM D5185m		987		
	Zinc		ASTM D5185m		967 1116		
		ppm			1110		

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm *ASTM D7414 >25

ASTM D445

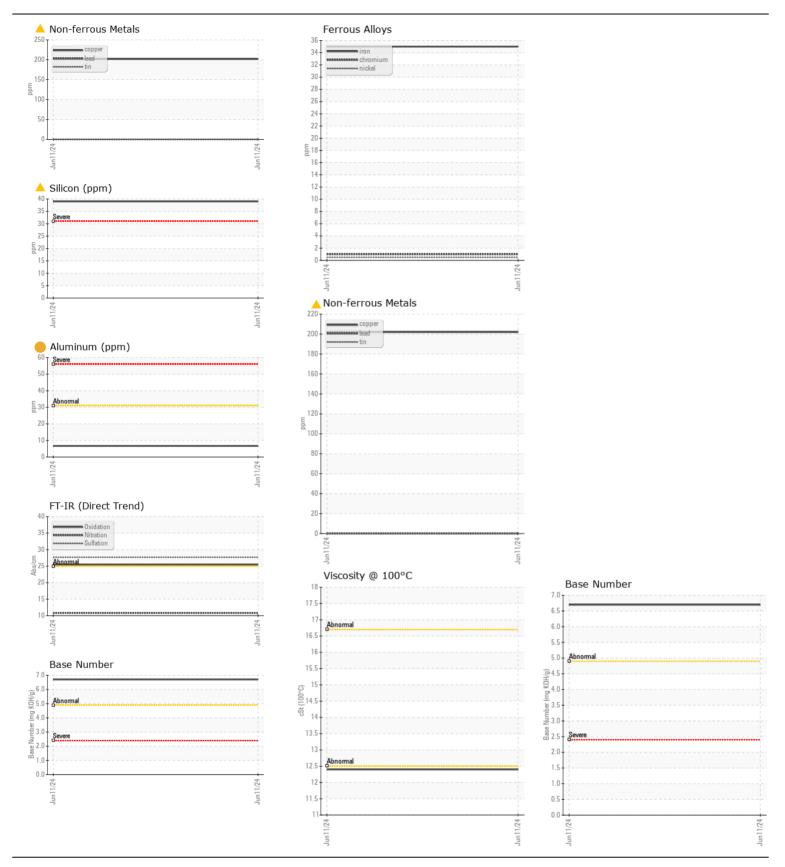
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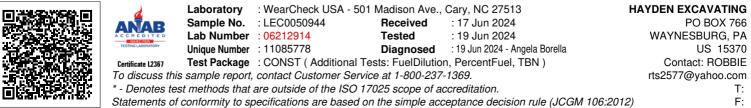
25.4

6.7

12.4

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL





Contact/Location: ROBBIE ? - HAYWAYPA Page 2 of 2