

Current

LEC0013048

History1

History2

Limit/Abn



RECOMMENDATION

Area Store 3 - Norton Machine Id JOHN DEERE 950K 1T0950KPAJF343928

Diesel Engine

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

Test

Sample Number

Visc @ 100°C cSt

UOM

Method

Client Info

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

CONTAMINATION

There is no indication of any contamination in the oil.

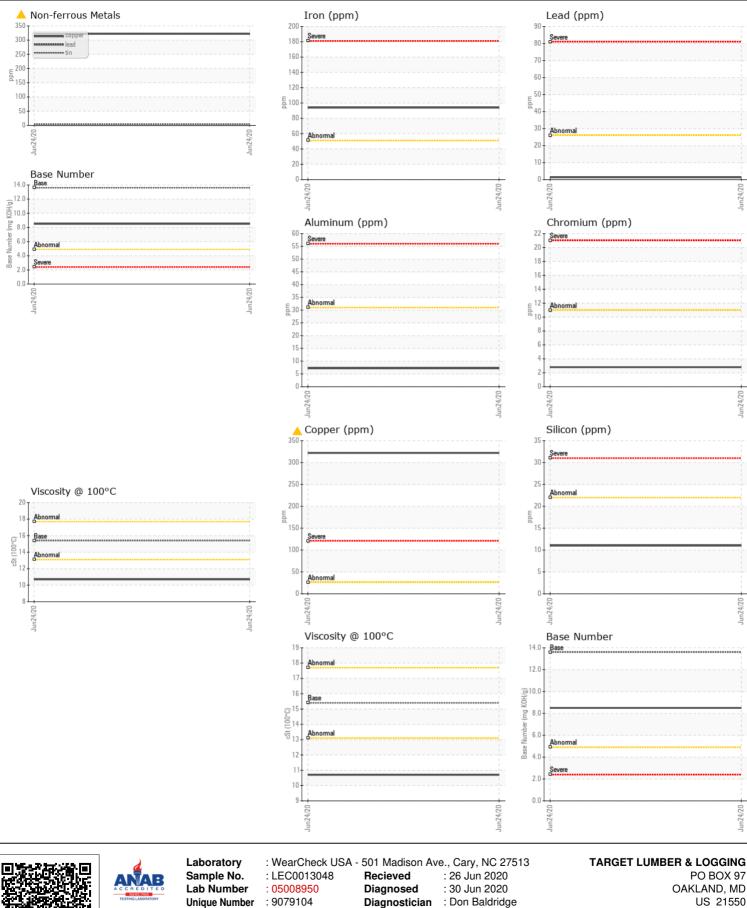
	Sample Number		Client Info		LEC0013048	
mple	Sample Date		Client Info		24 Jun 2020	
	Machine Age	hrs	Client Info		580	
	Oil Age	hrs	Client Info		580	
	Filter Age	hrs	Client Info		580	
	Oil Changed		Client Info		Changed	
	Filter Changed		Client Info		Changed	
	Sample Status				ABNORMAL	
ear	Iron	ppm	ASTM D5185m	>51	94	
	Chromium	ppm	ASTM D5185m	>11	3	
	Nickel	ppm	ASTM D5185m	>5	16	
J	Titanium	ppm	ASTM D5185m		<1	
ng	Silver	ppm	ASTM D5185m		0	
	Aluminum	ppm	ASTM D5185m	>31	7	
	Lead	ppm	ASTM D5185m	>26	1	
	Copper	ppm	ASTM D5185m	>26	A 322	
	Tin	ppm	ASTM D5185m	>4	3	
	Vanadium	ppm	ASTM D5185m		0	
	White Metal	scalar	*Visual	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	
	Silicon	ppm	ASTM D5185m	>22	11	
	Potassium	ppm	ASTM D5185m	>20	3	
	Fuel	%	ASTM D3524	>2.1	<1.0	
	Water		WC Method	>0.21	NEG	
	Glycol		WC Method		NEG	
	Soot %	%	*ASTM D7844	>3	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	
	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	
	Sodium	ppm	ASTM D5185m	>31	11	
the	Boron	ppm	ASTM D5185m		110	
the	Barium	ppm	ASTM D5185m		2	
	Molybdenum	ppm	ASTM D5185m		225	
	Manganese	ppm	ASTM D5185m		2	
	Magnesium	ppm	ASTM D5185m		804	
	Calcium	ppm	ASTM D5185m		1557	
	Phosphorus	ppm	ASTM D5185m		850	
	Zinc	ppm	ASTM D5185m		958	
	Sulfur	ppm	ASTM D5185m		2231	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	
	N# 0 100 T	0.	A OTH D A	4 = 4		

ASTM D445 15.4

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.

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 Certificate L2367
 Test Package
 : MOBCE (Additional Tests: FuelDilution, TBN)

 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)

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