



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

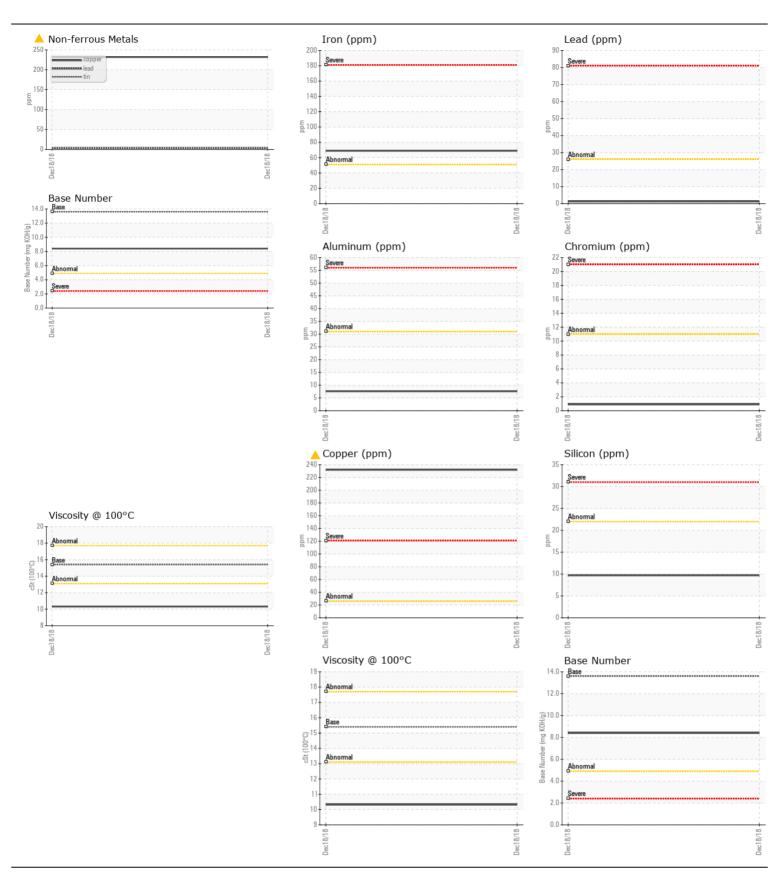


Store 4 - Fairmont

JOHN DEERE 950K 1T0950KPHJF330391

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LECP179221		
	Sample Date		Client Info		18 Dec 2018		
	Machine Age	hrs	Client Info		515		
	Oil Age	hrs	Client Info		515		
	Filter Age	hrs	Client Info		515		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAD			AOTA DE 40E				
WEAR 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.	Iron	ppm	ASTM D5185m		69		
	Chromium Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m ASTM D5185m	>5	4 0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	\31	8		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		△ 232		
	Tin	ppm	ASTM D5185m		4		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	10		
	Potassium	ppm	ASTM D5185m	>20	12		
	Fuel	%	ASTM D3524		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	9.5		
	Sulfation	Abs/.1mm	*ASTM D7415		23		
	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	Scalai	*Visual	>0.21	NEG		
FLUID CONDITION 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.	Sodium	ppm	ASTM D5185m	>31	13		
	Boron	ppm	ASTM D5185m		122		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		266		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		816		
	Calcium	ppm	ASTM D5185m		1396		
	Phosphorus	ppm	ASTM D5185m		801		
	Zinc	ppm	ASTM D5185m		953		
	Sulfur	ppm	ASTM D5185m		2422		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.4		
	Visc @ 100°C	cSt	ASTM D445	15.4	10.32		







Laboratory Sample No. Lab Number Unique Number

: 04620356 : 8446736

: LECP179221

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 27 Dec 2018 Diagnosed : 31 Dec 2018

Diagnostician : Jonathan Hester Test Package : MOB 2 (Additional Tests: FuelDilution)

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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