



WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL ATTENTION

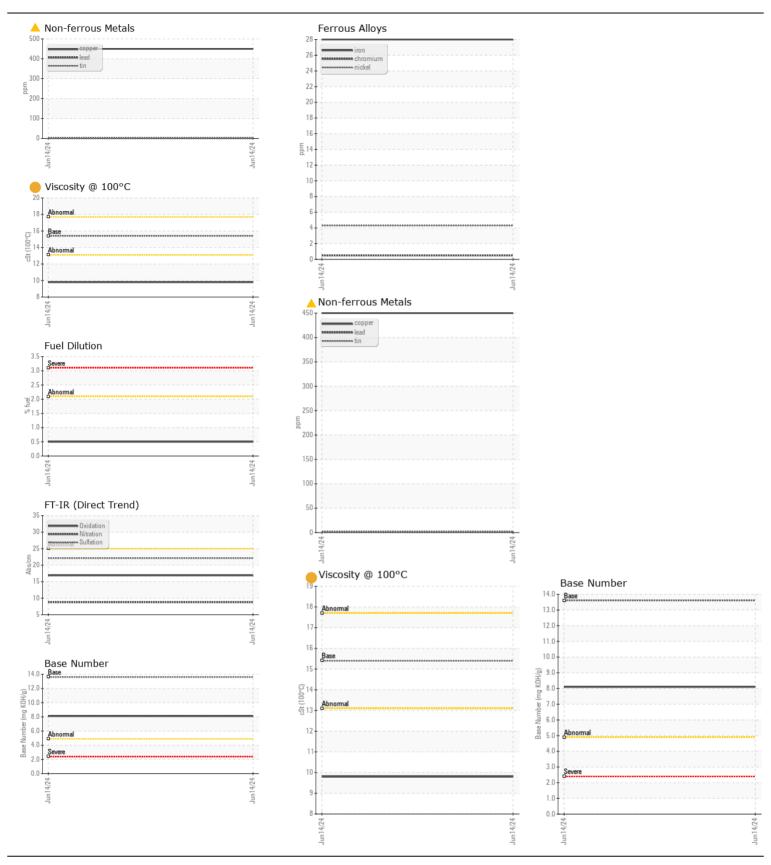
Area

Store 3 - Norton

JOHN DEERE 544P 1DW544PAJNLZ15719

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0050117		
	Sample Date		Client Info		14 Jun 2024		
	Machine Age	hrs	Client Info		474		
	Oil Age	hrs	Client Info		474		
	Filter Age	hrs	Client Info		474		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAD	Iron	nnm	ACTM DE10Em	. 51	00		
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 Chromium	ppm	ASTM D5185m ASTM D5185m		28 <1		
	Nickel	ppm	ASTM D5185m		4		
	Titanium	ppm	ASTM D5185m	75	<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		450		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		12		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5		
	Fuel	%	ASTM D3524		0.5		
	Water		WC Method	>0.21	NEG NEG		
	Glycol Soot %	%	*ASTM D7844	~ 3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.8		
	Sulfation	Abs/.1mm	*ASTM D7415		22.1		
	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		
EL LUB CONDITION					_		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	7		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		211		
	Barium	ppm	ASTM D5185m		3		
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		246 5		
	Magnesium	ppm	ASTM D5185m		5 850		
	Calcium	ppm	ASTM D5185m		1428		
	Phosphorus	ppm	ASTM D5185m		951		
	Zinc	ppm	ASTM D5185m		1084		
	Sulfur	ppm	ASTM D5185m		3443		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9		
	Base Number (BN)				8.1		
	Visc @ 100°C	cSt	ASTM D445		9.8		







Certificate L2367

Laboratory Sample No.

Lab Number : 06213324 Unique Number: 11086188

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0050117

Received : 18 Jun 2024 **Tested** : 20 Jun 2024 Diagnosed

: 20 Jun 2024 - Sean Felton

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, 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)

LESLIE EQUIPMENT COMPANY

Submitted By: STORE 3 - NORTON - BRIAN YOUTZY

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