

Store 5 - Cross Lanes [152097] JOHN DEERE 50G 1FF050GXPLH293689

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0050481		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		14 Jun 2024		
	Machine Age	hrs	Client Info		199		
	Oil Age	hrs	Client Info		199		
	Filter Age	hrs	Client Info		199		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		19		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>31	5		
	Lead	ppm	ASTM D5185m	>26	2		
	Copper	ppm	ASTM D5185m	>26	21		
	Tin	ppm	ASTM D5185m	>4	1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon		ASTM D5185m	. 120	4 2		
Sodium and/or potassium levels are high. Elemental level of silicon (Si) above normal indicating ingress of seal material. Light fuel dilution occurring. Test for glycol is negative.	Potassium	ppm	ASTM D5185m		▲ 42 ▲ 181		
	Fuel	ppm	ASTM D5165III ASTM D3524				
		%			▲ 2.8		
	Water	0/	WC Method	>0.21	NEG		
	Glycol	%	*ASTM D2982	0	NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.3		
	Sulfation	Abs/.1mm	*ASTM D7415		16.5		
	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	nom	ASTM D5185m	_ 21	14		
	Boron	ppm ppm	ASTM D5185m ASTM D5185m	>01	14 198		
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium		ASTM D5185m		4		
		ppm					
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		163		
	Manganese	ppm			1		
	Magnesium	ppm	ASTM D5185m		33		
	Calcium	ppm	ASTM D5185m		2266		
	Phosphorus	ppm	ASTM D5185m		661		
	Zinc	ppm	ASTM D5185m		773		
	Sulfur	ppm	ASTM D5185m		2818		
	Ovidation	Abo/ 1mm	*ACTM D7414	. OF	10.0		

Oxidation

Visc @ 100°C cSt

12.3

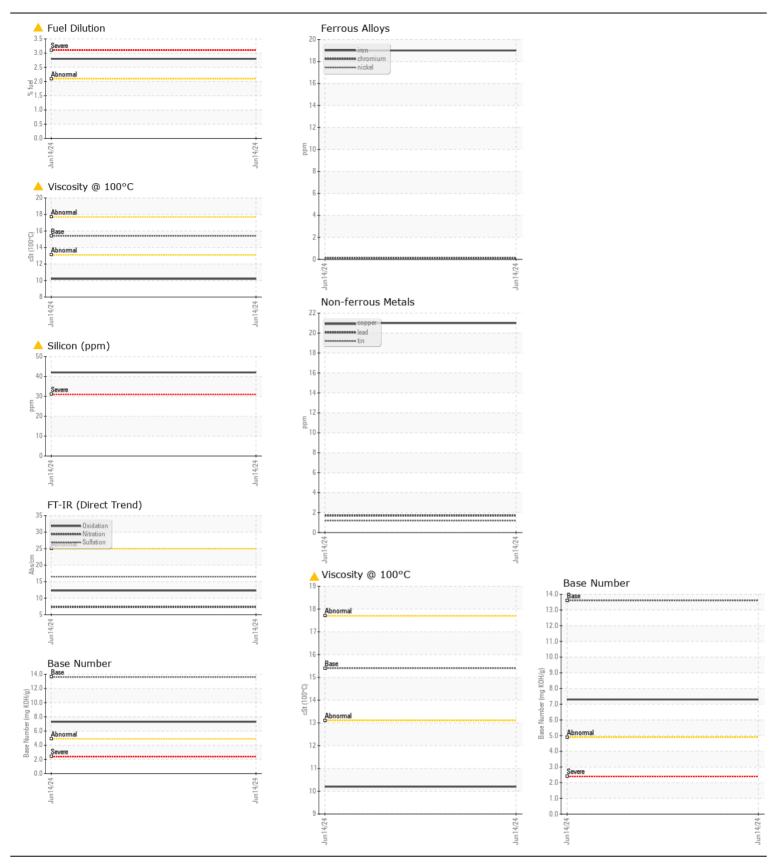
7.3

10.2

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.4

Base Number (BN) mg KOH/g ASTM D2896 13.6



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0050481 : 19 Jun 2024 Lab Number : 06214376 Tested : 24 Jun 2024 MARIETTA, OH : 24 Jun 2024 - Jonathan Hester US 45750-9765 Unique Number : 11087240 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN) Contact: LEANNE KENDALL Certificate L2367 KendalLeanne@lec1.com 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. T: F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: STORE5 - CROSS LANES - NEIL BALL