

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL
ABNORMAL
ATTENTION

Area

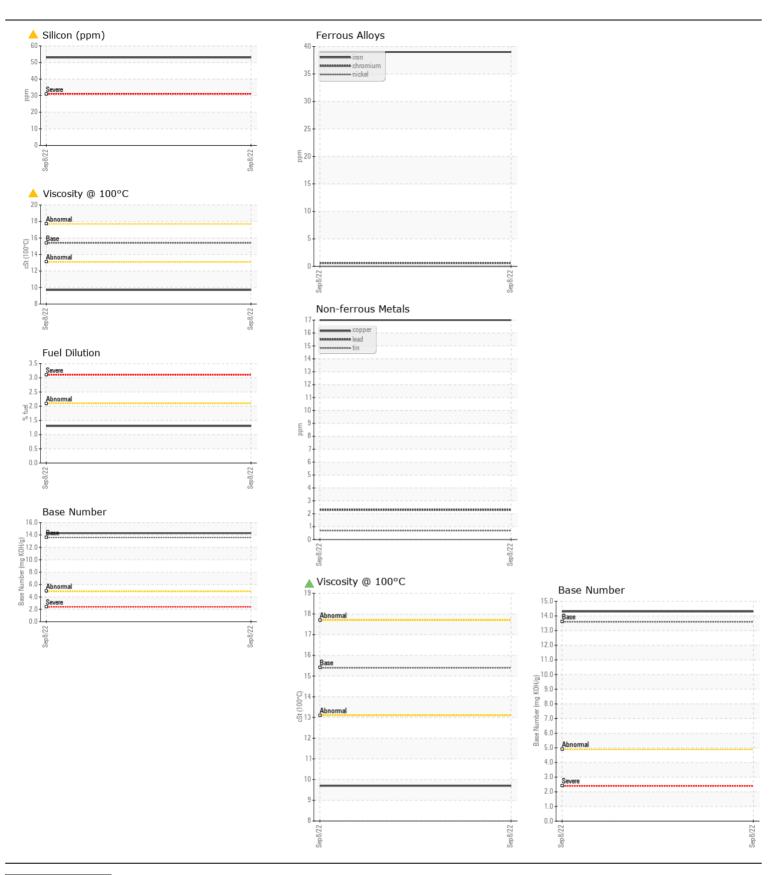
Store 5 - Cross Lanes [ro#131478]

JOHN DEERE 60G 1FF060GXJDJ285413

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0033945		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		08 Sep 2022		
	Machine Age	hrs	Client Info		236		
	Oil Age	hrs	Client Info		236		
	Filter Age	hrs	Client Info		236		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	39		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>31	4		
	Lead	ppm	ASTM D5185m	>26	2		
	Copper	ppm	ASTM D5185m	>26	17		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	△ 53		
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel	%	ASTM D3524		1.3		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0		
	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		
ELUID COMPITION	0 "		AOTA DE LOS	0.4	64		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	21		
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		43		
	Barium	ppm	ASTM D5185m		14		
	Molybdenum	ppm	ASTM D5185m		106		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		14		
	Calcium	ppm	ASTM D5185m		3986		
	Phosphorus	ppm	ASTM D5185m		1081		
	Zinc	ppm	ASTM D5185m		1278		
	Sulfur	ppm	ASTM D5185m	0.5	7858		
	Oxidation	Abs/.1mm	*ASTM D7414		10.2		
	Base Number (BN)				14.3		
	Visc @ 100°C	cSt	ASTM D445	15.4	9.7		







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: LEC0033945

Lab Number : 05648051 Unique Number : 10142590

Tested

: 26 Sep 2022 : 26 Sep 2022 - Jonathan Hester Diagnosed Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Received

: 22 Sep 2022

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765

Contact: LEANNE KENDALL KendalLeanne@lec1.com

T:

F: (740)373-5570