



WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL ATTENTION

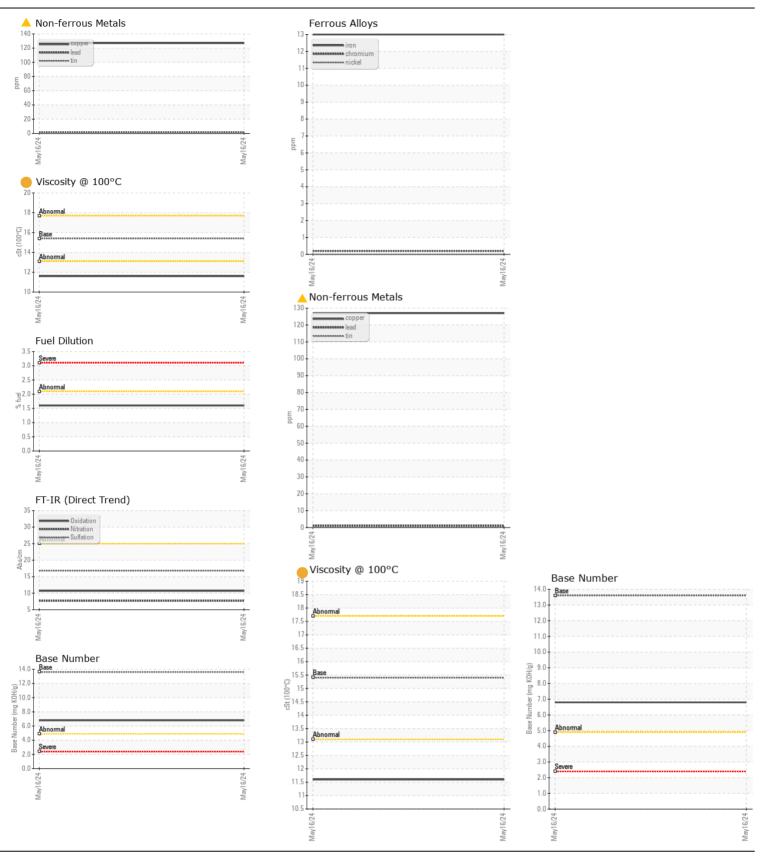
Area

Store 1 - Cowen [151031]

JOHN DEERE 135P 1FF135PAKNF000282

Diesel Engine

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		LEC0049927		
	Sample Date		Client Info		16 May 2024		
	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		
WEAR	Iron	ppm	ASTM D5185m	>51	13		
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.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		<u> </u>		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		17		
Fuel content negligible. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel	%	ASTM D3524	>2.1	1.6		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method	-	NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.7		
	Sulfation	Abs/.1mm	*ASTM D7415		16.8		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2		
	Boron	ppm	ASTM D5185m		174		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		1		
	Molybdenum	ppm	ASTM D5185m		8		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		41		
	Calcium	ppm	ASTM D5185m		2581		
	Phosphorus	ppm	ASTM D5185m		1133		
	Zinc	ppm	ASTM D5185m		1389		
	Sulfur	ppm	ASTM D5185m		3254		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.7		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.8		
	Visc @ 100°C	cSt	ASTM D445	15./	11.6		





Certificate L2367

Report Id: LESMAROH [WUSCAR] 06187514 (Generated: 05/28/2024 14:56:48) Rev: 1

Laboratory Sample No.

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

: LEC0049927 Lab Number : 06187514 Unique Number : 11044266

Tested

Received : 22 May 2024 : 28 May 2024 Diagnosed

: 28 May 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

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765 Contact: LEANNE KENDALL

KendalLeanne@lec1.com

T: F: (740)373-5570