



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



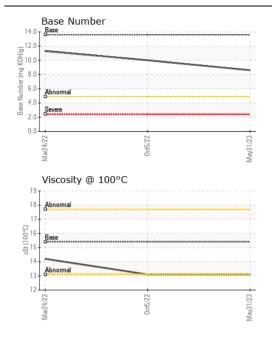
Store 1 - Cowen

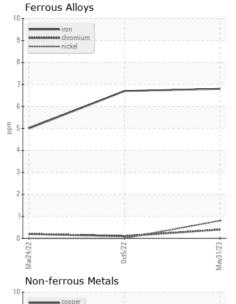
JOHN DEERE 135G 1FF135GXHKF501620

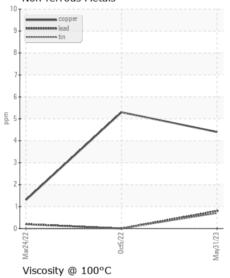
Diesel Engine

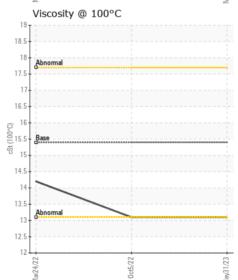
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

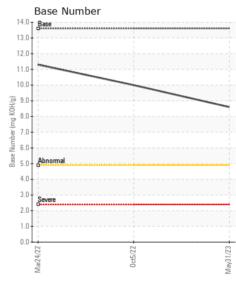
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIESONIMETON TON	Sample Number		Client Info		LEC0041379		LEC0027164
Resample at the next service interval to monitor.	Sample Date		Client Info		31 May 2023	05 Oct 2022	24 Mar 2022
	Machine Age	hrs	Client Info		1594	1056	527
	Oil Age	hrs	Client Info		538	529	527
	Filter Age	hrs	Client Info		538	529	527
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		7	7	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m	>31	4	3	2
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		4	5	1
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	9	6	7
SSITTAMINATION	Potassium	ppm	ASTM D5185m		3	0	<1
There is no indication of any contamination in the oil.	Fuel	PP	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	8.5	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	23.1	20.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
ELUID CONDITION	O a alta ana		AOTM DE405	04	•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	050	9
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m		263 0	253 0	0
	Molybdenum	ppm	ASTM D5185m		249	219	222
	Manganese	ppm	ASTM D5185m ASTM D5185m			<1	<1
	Magnesium	ppm	ASTM D5185m		<1 847	730	727
	Calcium	ppm	ASTM D5185m		1503	1589	1451
	Phosphorus	ppm	ASTM D5185m		944	874	842
	Zinc	ppm	ASTM D5185m		1165	1019	955
	Sulfur	ppm	ASTM D5185m		3386	3533	2497
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	15.7	16.2	15.2
	Base Number (BN)		ASTM D2896		8.6	10.2	11.3
	Visc @ 100°C		ASTM D2030		13.1	13.1	14.2
	*130 @ 100 U	COL	ACTIVI DTTO	10.4	13.1	10.1	17.4













Laboratory Sample No.

Lab Number : 05862808 Unique Number : 10497273

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0041379

Received **Tested** Diagnosed

: 02 Jun 2023 : 02 Jun 2023

: 05 Jun 2023 - Don Baldridge

Test Package : CONST (Additional Tests: 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)

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