

Store 2 - Beaver [Ro#147941] JOHN DEERE 332G 1T0332GMJMF394269

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (3 GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (J GAL)				·		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Installed new engine. Sampled new oil)	Sample Number		Client Info		LEC0048897	LEC0046770	LEC004256
	Sample Date		Client Info		19 Apr 2024	16 Feb 2024	03 Jul 202
	Machine Age	hrs	Client Info		3209	3208	2960
	Oil Age	hrs	Client Info		1	228	1720
	Filter Age	hrs	Client Info		1	228	1720
	Oil Changed		Client Info		Changed	Not Changd	Not Chang
	Filter Changed		Client Info		Changed	Not Changd	Not Chang
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	5	27	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	1	5
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	9	<1
	Lead	ppm	ASTM D5185m	>26	0	0	0
	Copper	ppm	ASTM D5185m	>26	4	10	6
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>!20	4 25	A 20	10
	Potassium	ppm	ASTM D5185m		2	4	2
Elemental level of silicon (Si) above normal indicating ingress of seal material.	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	0.5	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	5.3	9.3	12.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	27.9	26.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	2	4
	Boron	ppm	ASTM D5185m	201	248	311	68
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		1	5	0
	Molybdenum	ppm	ASTM D5185m		229	394	52
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		705	1196	603
	Calcium	ppm	ASTM D5185m		1578	2242	2231
	Phosphorus	ppm	ASTM D5185m		826	1337	1276
	Zinc	ppm	ASTM D5185m		985	1635	1540
	Sulfur	ppm	ASTM D5185m		3606	4507	4433
	Oxidation	Abs/.1mm		>25	19.6	25.4	21.8
		1/011/		10 -		= 0	0 =

Base Number (BN) mg KOH/g ASTM D2896 10.5

ASTM D445 14

Visc @ 100°C cSt

7.6

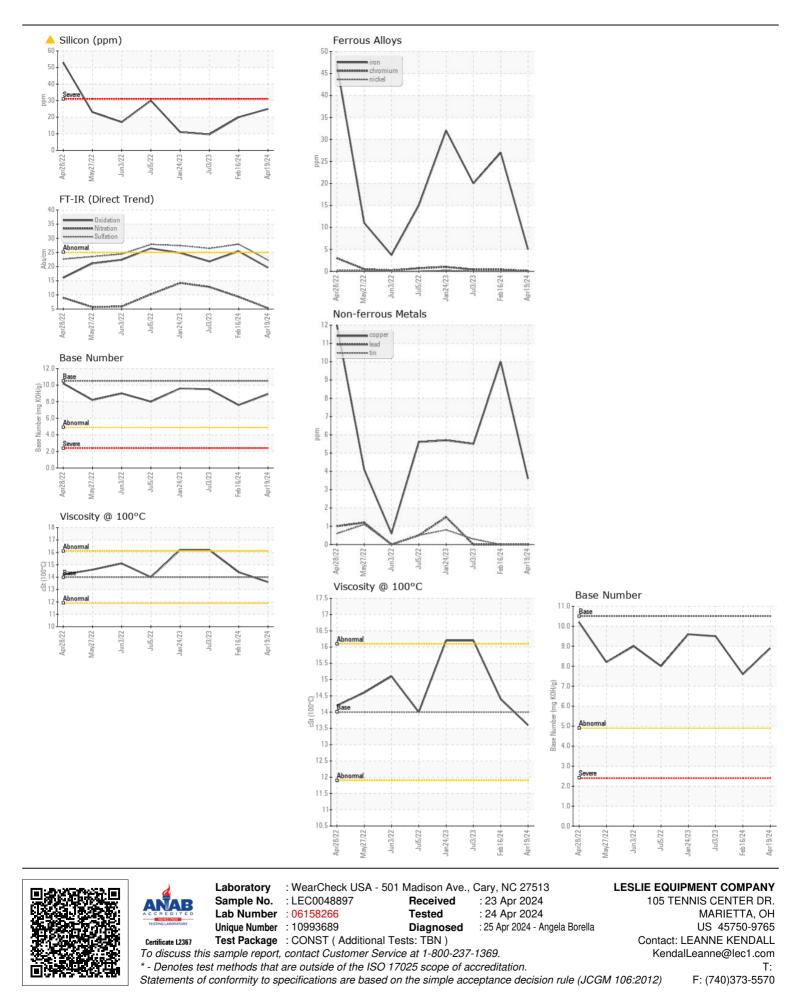
14.4

9.5

16.2

8.9

13.6



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