

Store 2 - Beaver [RO#150373] JOHN DEERE 2954D 1FF2954DCF0290217

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (7 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: New engine install/Sample new oil/break in oil)	Sample Number		Client Info		LEC0051789	LEC0034820	LEC0029406
	Sample Date		Client Info		24 May 2024	17 Oct 2022	01 Jun 2022
	Machine Age	hrs	Client Info		11162	10565	9971
	Oil Age	hrs	Client Info		1	594	490
	Filter Age	hrs	Client Info		1	594	490
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	15	35	20
	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	10	5	5
	Lead	ppm	ASTM D5185m	>26	<1	11	3
	Copper	ppm	ASTM D5185m	>26	4	3	1
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<120	12	12	8
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	2	4
There is no indication of any contamination in the oil.	Fuel	ррпі		>2.1	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	1.2	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	11.1	9.7
	Sulfation	Abs/.1mm	*ASTM D7415		22.0	26.9	23.9
	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
	Sodium	nnm	ASTM D5185m	<u>_</u> 21	А	43	20
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	>31	4 298	43 162	20 237
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	>31	298	162	237
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	>31	298 3	162 0	237 0
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>31	298 3 240	162 0 291	237 0 280
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>31	298 3	162 0 291 <1	237 0 280 <1
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>31	298 3 240 3 834	162 0 291 <1 872	237 0 280
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>31	298 3 240 3 834 1319	162 0 291 <1	237 0 280 <1 870
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>31	298 3 240 3 834	162 0 291 <1 872 1702	237 0 280 <1 870 1576
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>31	298 3 240 3 834 1319 905	162 0 291 <1 872 1702 943	237 0 280 <1 870 1576 997

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

Visc @ 100°C cSt

9.4

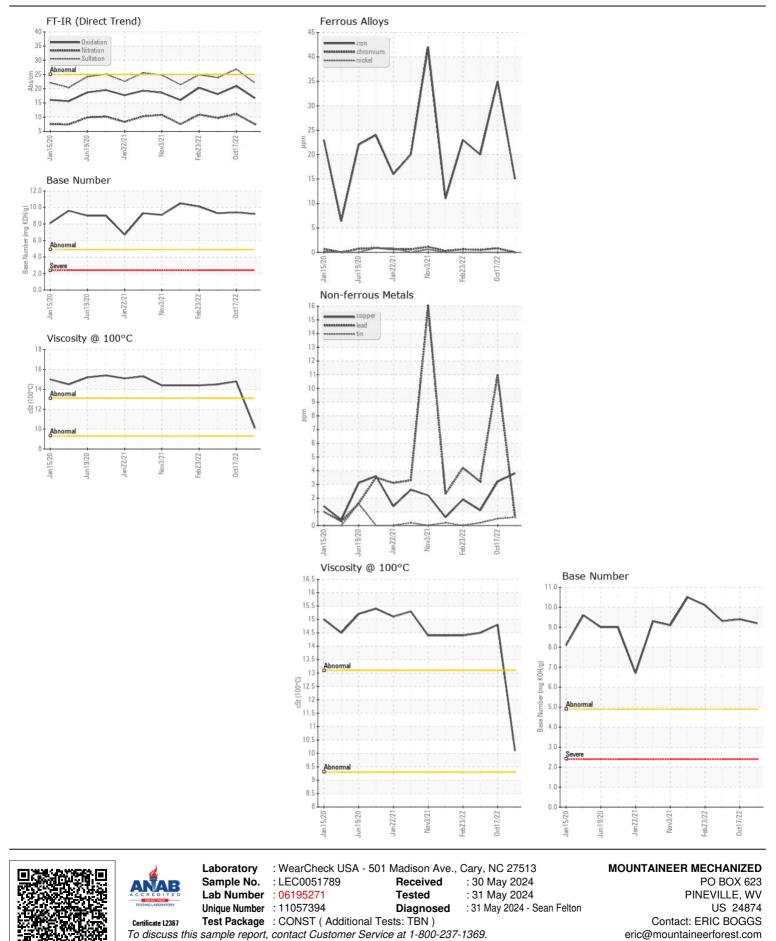
14.8

9.3

14.5

9.2

10.1



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: