

JOHN DEERE 50G 1FF050GXKKH290441

Diesel Engine

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

JOHN DEERE ENGINE OIL PLUS 30 II 13W40 (*	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0207861	JR0185072	JR0185261
	Sample Date		Client Info		15 Apr 2024	25 Jan 2024	29 Sep 2023
	Machine Age	hrs	Client Info		3236	2984	2722
	Oil Age	hrs	Client Info		260	262	236
	Filter Age	hrs	Client Info		260	262	236
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	7	9	8
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	6	4	3
	Lead	ppm	ASTM D5185m	>26	0	<1	<1
	Copper	ppm	ASTM D5185m	>26	<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11	13	11
	Potassium	ppm	ASTM D5185m	>20	<1	2	1
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.4	8.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	20.9	21.0
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	0	<1
	Boron	ppm	ASTM D5185m		270	258	290
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		247	243	271
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		830	794	839
	Calcium	ppm	ASTM D5185m		1444	1257	1391
	Phosphorus	ppm	ASTM D5185m		907	904	926
	Zinc	ppm	ASTM D5185m		1100	1057	1104
	Sulfur	ppm	ASTM D5185m		3413	2988	3159
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.1	16.5
	Base Number (BN)		ASTM D2896	13.6	9.1	8.7	9.5

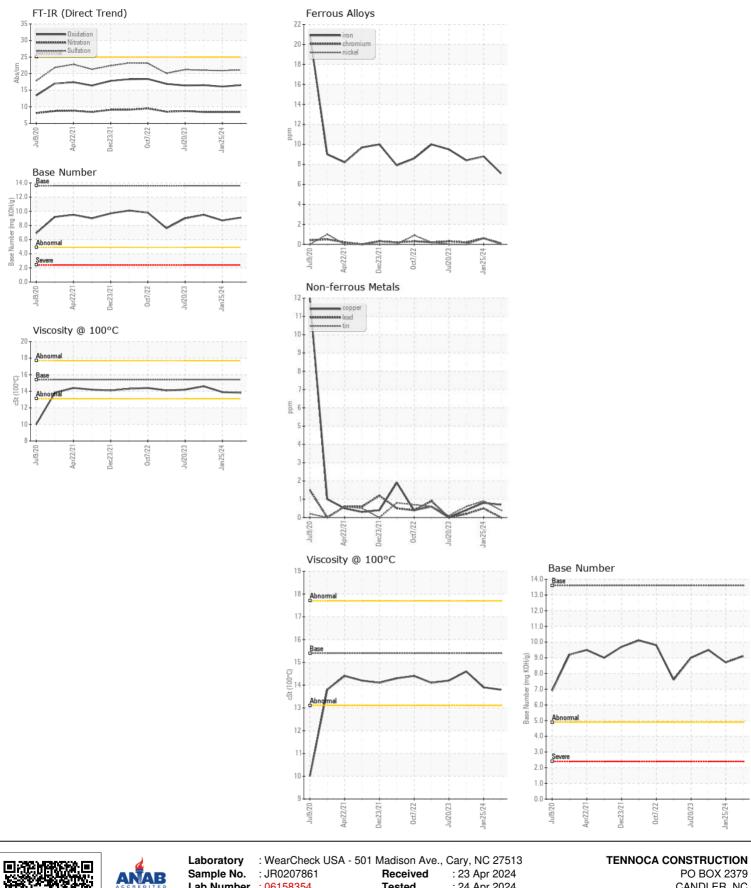
Visc @ 100°C cSt

ASTM D445 15.4

13.8

13.9

14.6



Lab Number : 06158354 Tested : 24 Apr 2024 CANDLER, NC Unique Number : 10993777 Diagnosed : 24 Apr 2024 - Wes Davis US 28715 Test Package : CONST (Additional Tests: TBN) Contact: MARK ROSS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mark@tennoca.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (828)665-8331 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: MARK ROSS - TENCAN Page 2 of 2