

Machine Id JOHN DEERE 200G 1FF200GXTLF085008 Component Diesel Engine Fluid

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

	LIN)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0207804	JR0176826	JR0141614
	Sample Date		Client Info		15 May 2024	20 Jul 2023	06 Dec 2022
	Machine Age	hrs	Client Info		2546	2037	1610
	Oil Age	hrs	Client Info		509	429	572
	Filter Age	hrs	Client Info		509	429	572
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAI
WEAR	Iron	ppm	ASTM D5185m	>51	39	24	24
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	7	4	4
	Lead	ppm	ASTM D5185m	>26	25	15	42
	Copper	ppm	ASTM D5185m	>26	5	3	7
	Tin	ppm	ASTM D5185m	>4	1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	10	8	8
	Potassium	ppm	ASTM D5185m	>20	1	<1	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.4	12.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	24.4	29.6
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	4	0
	Boron	ppm	ASTM D5185m		121	168	90
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		294	290	281
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		946	995	868
	Calcium	ppm	ASTM D5185m		1587	1717	1663
	Phosphorus	ppm	ASTM D5185m		970	987	894
	Zinc	ppm	ASTM D5185m		1194	1220	1130
	Sulfur	ppm	ASTM D5185m		3447	3814	3457
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	19.6	24.4
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	8.4	8.7
	V/1 0 10000	- 01		4 5 4		110	110

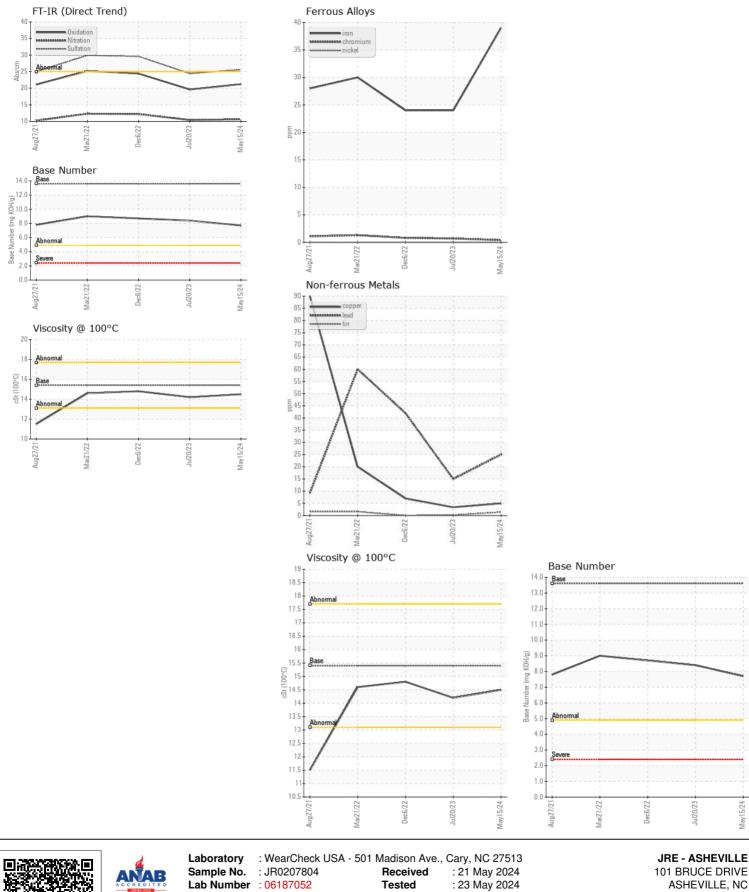
Visc @ 100°C cSt

ASTM D445 15.4

14.2

14.8

14.5



Contact/Location: Randy Warren - VANASH Page 2 of 2